

# TIA-1005-A M.I.C.E Rated Product Selection Guide



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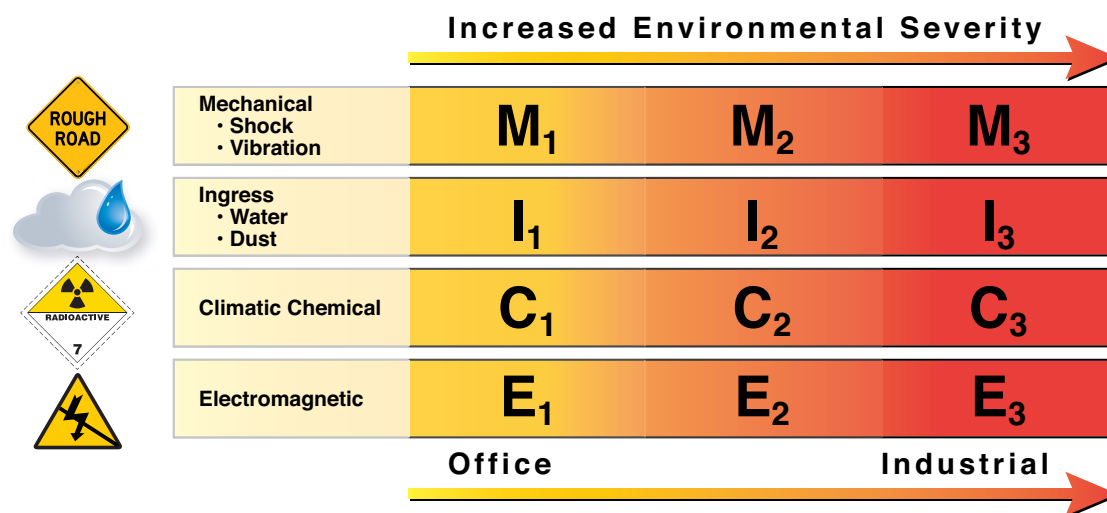
When designing the physical infrastructure to support network communications in a manufacturing location, TIA-1005-A is a standard that must be considered.

According to the TIA-1005-A standard, there are three basic types of industrial areas:

- Factory Floor
- Work Area
- Automation Island

Designing for the manufacturing environment requires an intimate knowledge of these areas to ensure the infrastructure supports the different environments found on the plant floor. Considerations such as shock and vibration, handling of water or dust, temperature, washdown areas, exposure to acids or oil mixtures and electromagnetic noise must be taken into account when selecting solutions to support these harsh environments.

Environmental classifications and ratings based on Mechanical, Ingress, Climatic/Chemical, Electro Magnetic (M.I.C.E) attributes provide a method of categorizing the environmental classes required for each of the industrial areas and are rated as 1 = low, 2 = medium, and 3 = high.



Whether you are designing for the factory floor, work area or automation island, Panduit offers solutions that meet the TIA-1005-A M.I.C.E guidelines. This selection guide provides the industrial physical infrastructure designer with detailed M.I.C.E information about each of Panduit's network products typically considered in industrial environments. For an expanded offering of level 1 parts that may be used in your industrial network, visit [panduit.com/networkpartsamerica](https://panduit.com/networkpartsamerica) or the online catalog at [panduit.com](https://panduit.com).

For additional information on M.I.C.E ratings contact our technical support team at [techsupport@panduit.com](mailto:techsupport@panduit.com) or call 800-777-3300.

For more information about the TIA-1005-A standard, visit [tiaonline.com](https://tiaonline.com).



|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MICE<br>(Final Rating) |   | Detailed MICE Rating |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
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|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   | Mechanical           |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       | Ingress                           |                            | Climatic/Chemical       |                             |                       |                     |                                   |                            |                            |                             |                       |                     | EMI            |                |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   | M <sub>2</sub>       |                         |                            |                            |                          |         | M <sub>3</sub>    |                           |                         |                            |                          |         |          |       | I <sub>2</sub>                    | I <sub>3</sub>             | C <sub>2</sub>          |                             |                       |                     |                                   | C <sub>3</sub>             |                            |                             |                       |                     | E <sub>2</sub> | E <sub>3</sub> |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   | 100 ms-1<br>shock    | 7mm/20ms-1<br>vibration | 300N<br>*Tensile Connected | 1100N/150mm<br>compression | 10J<br>impact resistance | torsion | 250 ms-1<br>shock | 15mm/50 ms-1<br>vibration | 2<br>*Tensile Connected | 2200N/150mm<br>compression | 30J<br>impact resistance | torsion | IP 54/65 | IP 67 | -25°C to +70°C<br>operation temp. | 1.0 °C/min<br>temp. change | See C3<br>sun radiation | < 5.0 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C<br>operation temp. | 3.0 °C/min<br>temp. change | 1120 W/m²<br>sun radiation | < 500 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents |                |                |
| <b>LEGEND:</b><br>● = Acceptable for use in Environment<br><br>x = Not Acceptable for use in Environment<br><br>— = Not Applicable<br><br>c = Contact Tech Support | <b>NOTE:</b><br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. | M                      | I | C                    | E                       |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| Part Number                                                                                                                                                        | Product Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| Copper Cable                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| Category 7                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| PSMD7004BL-LED                                                                                                                                                     | Copper cable, Category 7, Marine MUD-resistant, 4-pair, 22/1 AWG, S/FTP, LSZH, 1640 ft./500m reel.                                                                                                                                                                                                                                                                                                                                                                   | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| Category 6A                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| ISX6X04A*-LED                                                                                                                                                      | Copper cable, industrial, Category 6A 4-pair, 24/7 AWG stranded, S/FTP, PUR, 1640 ft./500m reel.                                                                                                                                                                                                                                                                                                                                                                     | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISFCH6X04A*-UG                                                                                                                                                     | Copper cable, industrial, 600V, Category 6A, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                              | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISFCH6X04B*-UG                                                                                                                                                     | Copper cable, industrial, 600V, Category 6A, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                              | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| PUP6AV04*-G                                                                                                                                                        | Copper cable, Category 6A, 4-pair, 23 AWG stranded, UTP, CMP, 1,000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                                   | 1                      | — | 1                    | 1                       | x                          | —                          | x                        | x       | x                 | x                         |                         |                            |                          |         |          |       | —                                 |                            | x                       | x                           | x                     | x                   | x                                 | x                          |                            |                             |                       | x                   |                |                |
| Category 6                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| PSM6004*-LED                                                                                                                                                       | Copper cable, industrial, Category 6, 4-pair, 22/1 AWG, S/FTP, LSZH, 1640 ft./500m reel.                                                                                                                                                                                                                                                                                                                                                                             | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISX6004A*-LED                                                                                                                                                      | Copper cable, industrial, Category 6, 4-pair, 24/7 AWG stranded, S/FTP, PUR, 1640 ft./500m reel.                                                                                                                                                                                                                                                                                                                                                                     | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| IFRH6C04*-UG                                                                                                                                                       | Copper cable, industrial, 600V, Category 6, 4-pair, 23/1 AWG, F/UTP, CMR, Black, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                 | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IURH6004*-UG                                                                                                                                                       | Copper cable, industrial, 600V, Category 6, 4-pair, 23/1 AWG, U/UTP, CMR, Black, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                 | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IUC6C04A*-CEG                                                                                                                                                      | Copper cable, industrial, Category 6, 4-pair, 24/7 AWG stranded, U/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                      | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| Category 5e                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |                |                |
| ISFCH5C02A*-XG                                                                                                                                                     | Copper cable, industrial, Category 5e, 2-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                    | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISFCH5C04A*-XG                                                                                                                                                     | Copper cable, industrial, Category 5e, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                    | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISFCH5C04A*-XG                                                                                                                                                     | Copper cable, industrial, Category 5e, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                    | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| ISFX5502A*-LED                                                                                                                                                     | Copper cable, industrial, Category 5e, 2-pair, 24/7 AWG stranded, SF/UTP, PUR, 1640 ft./500m reel.                                                                                                                                                                                                                                                                                                                                                                   | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            |                         | ●                           |                       | ●                   | c                                 | c                          | ●                          |                             | ●                     |                     | ●              |                |
| IFC5C04B*-CEG                                                                                                                                                      | Copper cable, industrial, Category 5e, 4-pair, 26/7 AWG stranded, F/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                     | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IFRH5C02*-UG                                                                                                                                                       | Copper cable, industrial, 600V, Category 5e, 2-pair, 24/1 AWG solid, F/UTP, CMR, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                 | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IFRH5C04*-UG                                                                                                                                                       | Copper cable, industrial, 600V, Category 5e, 4-pair, 24/1 AWG solid, F/UTP, CMR, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                 | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IURHA5C04*-UG                                                                                                                                                      | Copper cable, industrial 600V armored, Category 5e, 4-pair, 24/1 AWG, U/UTP, CMR, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                | 3                      | — | 2                    | 2                       |                            |                            |                          |         |                   |                           | ●                       | ●                          | —                        | ●       | ●        | ●     | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IURHT5C04*-UG                                                                                                                                                      | Copper cable, industrial 600V PLTC, Category 5e, 4-pair, 22/1 AWG, U/UTP, CMR, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                   | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |
| IUC5C04A*-CEG                                                                                                                                                      | Copper cable, industrial, Category 5e, 4-pair, 24/7 AWG stranded, U/UTP, CM, 1000 ft./305m reel.                                                                                                                                                                                                                                                                                                                                                                     | 2                      | — | 2                    | 2                       | ●                          | ●                          | —                        | ●       | ●                 | ●                         |                         |                            |                          |         |          |       | —                                 |                            | -20                     | ●                           |                       | ●                   | c                                 | c                          |                            |                             | ●                     |                     | ●              |                |

\* Available in multiple colors.

|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MICE<br>(Final Rating) |   |   |   | Detailed MICE Rating |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
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|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   | Mechanical           |                         |                            |                            |                          |         |                   |                           | Ingress                 |                            | Climatic/Chemical        |         |          |       |                                   |                            |                         |                             |                       |                     | EMI                               |                            |                            |                             |                       |                     |   |  |  |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   | M <sub>2</sub>       |                         |                            |                            | M <sub>3</sub>           |         |                   |                           | I <sub>2</sub>          | I <sub>3</sub>             | C <sub>2</sub>           |         |          |       |                                   | C <sub>3</sub>             |                         |                             |                       |                     | E <sub>2</sub>                    | E <sub>3</sub>             |                            |                             |                       |                     |   |  |  |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   | shock<br>100 ms-1    | vibration<br>7mm/20ms-1 | *Tensile Connected<br>300N | compression<br>1100N/150mm | impact resistance<br>10J | torsion | shock<br>250 ms-1 | vibration<br>15mm/50 ms-1 | *Tensile Connected<br>2 | compression<br>2200N/150mm | impact resistance<br>30J | torsion | IP 54/65 | IP 67 | -25°C to +70°C<br>operation temp. | 1.0 °C/min<br>temp. change | See C3<br>sun radiation | < 5.0 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C<br>operation temp. | 3.0 °C/min<br>temp. change | 1120 W/m²<br>sun radiation | < 500 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents |   |  |  |
| <b>LEGEND:</b><br>● = Acceptable for use in Environment<br><br>x = Not Acceptable for use in Environment<br><br>— = Not Applicable<br><br>c = Contact Tech Support | <b>NOTE:</b><br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. | M                      | I | C | E |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
| <b>Part Number</b>                                                                                                                                                 | <b>Product Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
| <b>Copper Connectivity Category 6A</b>                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
| IAEBH6XS                                                                                                                                                           | IndustrialNet™, Category 6A, Shielded Connector.                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | x     |                                   | ●                          | ●                       | c                           | c                     |                     |                                   | ●                          |                            |                             |                       | ●                   |   |  |  |
| IAEBH6X                                                                                                                                                            | IndustrialNet™, Category 6A, UTP Connector.                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     |                                   | ●                          | ●                       | c                           | c                     |                     |                                   | ●                          |                            |                             |                       | ●                   |   |  |  |
| CJSM6X88TG                                                                                                                                                         | Category 6A, RJ45, 8-position, 8-wire, marine universal module.                                                                                                                                                                                                                                                                                                                                                                                                      | 2                      | 1 | 1 | 2 | ●                    | ●                       | —                          | x                          | x                        | —       |                   |                           |                         |                            |                          |         |          | x     |                                   |                            | x                       | x                           | x                     | ●                   |                                   |                            |                            |                             |                       | ●                   |   |  |  |
| CJ6X88TG*                                                                                                                                                          | Category 6A, RJ45, 8-position, 8-wire, universal module.                                                                                                                                                                                                                                                                                                                                                                                                             | 1                      | 1 | 1 | 1 | x                    | x                       | x                          | x                          | x                        | x       |                   |                           |                         |                            |                          |         |          | x     |                                   | x                          | x                       | x                           | x                     |                     |                                   |                            |                            |                             |                       | x                   |   |  |  |
| ISPS688FA                                                                                                                                                          | IndustrialNet™, Category 6A, 8-Position, Shielded, Field Terminable, RJ45 Modular Plug (conductor diameter 1.0 – 1.6mm).                                                                                                                                                                                                                                                                                                                                             | 1                      | 1 | 1 | 2 | ●                    | ●                       | —                          | x                          | x                        | —       |                   |                           |                         |                            |                          |         |          | x     |                                   | x                          | x                       | x                           | ●                     |                     |                                   |                            |                            |                             |                       | ●                   |   |  |  |
| ISPS688FAS                                                                                                                                                         | IndustrialNet™, Category 6A, 8-Position, Shielded, Field Terminable, RJ45 Modular Plug (conductor diameter 0.85 – 1.0mm).                                                                                                                                                                                                                                                                                                                                            | 1                      | 1 | 1 | 2 | ●                    | ●                       | —                          | x                          | x                        | —       |                   |                           |                         |                            |                          |         |          | x     |                                   | x                          | x                       | x                           | ●                     |                     |                                   |                            |                            |                             |                       | ●                   |   |  |  |
| ISPS6A88MFA                                                                                                                                                        | IndustrialNet™, Category 6A, Field Terminable, M12 X-Code Plug.                                                                                                                                                                                                                                                                                                                                                                                                      | 3                      | 3 | 1 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | —       |          | ●     | ●                                 |                            |                         |                             |                       |                     | ●                                 | ●                          | ●                          | ●                           | c                     | ●                   |   |  |  |
| IAEBHV56XS                                                                                                                                                         | Industrial variant 5 STP category 6A bulkhead connector.                                                                                                                                                                                                                                                                                                                                                                                                             | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| MPSIV56XT                                                                                                                                                          | Industrial variant 5 STP category 6A RJ45 modular plug.                                                                                                                                                                                                                                                                                                                                                                                                              | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| <b>Category 6</b>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
| IAEBH6S                                                                                                                                                            | IndustrialNet™, Category 6, Shielded Connector.                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| IAEBH6                                                                                                                                                             | IndustrialNet™, Category 6, UTP Connector.                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| CJSM688TG                                                                                                                                                          | Category 6, RJ45, 8-position, 8-wire, marine universal module.                                                                                                                                                                                                                                                                                                                                                                                                       | 2                      | 1 | 1 | 2 | ●                    | ●                       | —                          | x                          | x                        | —       |                   |                           |                         |                            |                          |         |          | x     |                                   | x                          | x                       | x                           | x                     | ●                   |                                   |                            |                            |                             |                       | ●                   |   |  |  |
| ISJ688TG                                                                                                                                                           | IndustrialNet™, Category 6, Shielded Connector, for use in bulkhead assembly IAEBH6S.                                                                                                                                                                                                                                                                                                                                                                                | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| IJ688TG                                                                                                                                                            | IndustrialNet™, Category 6, UTP Connector, for use in bulkhead assembly IAEBH6.                                                                                                                                                                                                                                                                                                                                                                                      | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| IAEBHC6                                                                                                                                                            | IndustrialNet™, Category 6, UTP Coupler Connector.                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| IAEBHUSBAA                                                                                                                                                         | IndustrialNet™, USB 2.0 Female A to Female A Coupler Module.                                                                                                                                                                                                                                                                                                                                                                                                         | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     | ● |  |  |
| <b>Category 5e</b>                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                            |                             |                       |                     |   |  |  |
| IAEBH5ES                                                                                                                                                           | IndustrialNet™, Category 5e, Shielded Connector.                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| IAEBH5E                                                                                                                                                            | IndustrialNet™, Category 5e, UTP Connector.                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| ISJ5E88TG                                                                                                                                                          | IndustrialNet™, Category 5e, Shielded Connector, for use in bulkhead assembly IAEBH5ES.                                                                                                                                                                                                                                                                                                                                                                              | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| IJ5E88TG                                                                                                                                                           | IndustrialNet™, Category 5e, UTP Connector, for use in bulkhead assembly IAEBH5E.                                                                                                                                                                                                                                                                                                                                                                                    | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| IAEBHC5E                                                                                                                                                           | IndustrialNet™, Category 5e, UTP Coupler Connector.                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| MPSI588T                                                                                                                                                           | Category 5e, 24 AWG, shielded modular plug with bulkhead.                                                                                                                                                                                                                                                                                                                                                                                                            | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| MPI588T                                                                                                                                                            | Category 5e, 24 AWG, shielded modular plug with bulkhead.                                                                                                                                                                                                                                                                                                                                                                                                            | 3                      | 3 | 2 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | ●       |          | ●     | -20                               | ●                          |                         | ●                           | c                     | c                   |                                   |                            | ●                          |                             |                       |                     |   |  |  |
| ISPS5E44MFA                                                                                                                                                        | IndustrialNet™, Category 5e, M12 D-Code, Field Terminable Modular Plug.                                                                                                                                                                                                                                                                                                                                                                                              | 3                      | 3 | 1 | 2 |                      |                         |                            |                            |                          |         | ●                 | ●                         | —                       | ●                          | ●                        | —       |          | ●     | ●                                 |                            |                         |                             |                       |                     |                                   | ●                          | ●                          | ●                           | ●                     | c                   | ● |  |  |

\* Available in multiple colors.

(continued)

|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MICE<br>(Final Rating) |   |   |   | Detailed MICE Rating |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|---|---|----------------------|------------|--------------------|-------------|-------------------|----------------|--------------|-----------|--------------------|-------------|-------------------|----------------|-------------------|-------|----------------|------------|----------------|----------------|-----------------------|---------------------|----------------|----------------|-----------|----------------|-----------------------|---------------------|---|---|--|--|--|--|--|
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   | Mechanical           |            |                    |             |                   |                |              |           |                    |             | Ingress           |                | Climatic/Chemical |       |                |            |                |                |                       |                     | EMI            |                |           |                |                       |                     |   |   |  |  |  |  |  |
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   | M <sub>2</sub>       |            |                    |             |                   | M <sub>3</sub> |              |           |                    |             | I <sub>2</sub>    | I <sub>3</sub> | C <sub>2</sub>    |       |                |            | C <sub>3</sub> |                |                       |                     | E <sub>2</sub> | E <sub>3</sub> |           |                |                       |                     |   |   |  |  |  |  |  |
| LEGEND:<br>● = Acceptable for use in Enviroment<br><br>x = Not Acceptable for use in Enviroment<br><br>- = Not Applicable<br><br>c = Contact Tech Support | NOTE:<br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. | M                      | I | C | E | shock                | vibration  | *Tensile Connected | compression | impact resistance | torsion        | shock        | vibration | *Tensile Connected | compression | impact resistance | torsion        | IP 54/65          | IP 67 | -25°C to +70°C | 1.0 °C/min | See C3         | oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C | 3.0 °C/min     | 1120 W/m² | oil resistance | res. liquid chemicals | res. gaseous agents |   |   |  |  |  |  |  |
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   | 100 ms-1             | 7mm/20ms-1 | 300N               | 1100N/150mm | 10J               | 250 ms-1       | 15mm/50 ms-1 | 2         | 2200N/150mm        | 30J         |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| Part Number                                                                                                                                               | Product Description                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| Copper Connectivity (continued)                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| USB                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| IAPCMUSBA*                                                                                                                                                | Industrial Mini-Com® USB 2.0 Female A/Female A Coupler.                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      | 1 | 1 | 1 | x                    | x          | —                  | x           | x                 | —              |              |           |                    |             |                   |                |                   | x     |                | x          | x              | x              | x                     | x                   | x              |                |           |                |                       |                     |   | x |  |  |  |  |  |
| M12 Adapters                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| ICAM12DRJS                                                                                                                                                | IndustrialNet™, M12 D-Code Female to RJ45 Jack, Panel Mount Adapter.                                                                                                                                                                                                                                                                                                                                                                                          | 1                      | 1 | 1 | 2 | ●                    | ●          | —                  | x           | x                 | —              |              |           |                    |             |                   |                |                   | x     | x              | ●          | ●              | x              | ●                     | c                   | c              |                |           |                |                       |                     |   | ● |  |  |  |  |  |
| ICAM12XRJS                                                                                                                                                | IndustrialNet™, M12 X-Code Female to RJ45 Jack, Panel Mount Adapter                                                                                                                                                                                                                                                                                                                                                                                           | 1                      | 1 | 1 | 2 | ●                    | ●          | —                  | x           | x                 | —              |              |           |                    |             |                   |                |                   | x     | x              | ●          | ●              | x              | ●                     | c                   | c              |                |           |                |                       |                     |   | ● |  |  |  |  |  |
| ICAM12X90RJS                                                                                                                                              | IndustrialNet™, M12 X-Code, Female to 90° RJ45 Jack, Panel Mount Adapter.                                                                                                                                                                                                                                                                                                                                                                                     | 1                      | 1 | 1 | 2 | ●                    | ●          | —                  | x           | x                 | —              |              |           |                    |             |                   |                |                   | x     | x              | ●          | ●              | x              | ●                     | c                   | c              |                |           |                |                       |                     |   | ● |  |  |  |  |  |
| Connectivity Accessories                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| ISPS688FAS-WM                                                                                                                                             | Category 6A replacement wire managers for RJ45 plug for use with ISPS688FAS.                                                                                                                                                                                                                                                                                                                                                                                  | —                      | — | — | — | —                    | —          | —                  | —           | —                 | —              |              |           |                    |             |                   |                |                   | —     |                | —          | —              | —              | —                     | —                   | —              |                |           |                |                       |                     |   | — |  |  |  |  |  |
| ISPS688FA-WM                                                                                                                                              | Category 6A replacement wire managers for RJ45 plug for use with ISPS688FA.                                                                                                                                                                                                                                                                                                                                                                                   | —                      | — | — | — | —                    | —          | —                  | —           | —                 | —              |              |           |                    |             |                   |                |                   | —     |                | —          | —              | —              | —                     | —                   | —              |                |           |                |                       |                     |   | — |  |  |  |  |  |
| IAEBHV5C                                                                                                                                                  | Industrial variant 5 bulkhead connector cap.                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | -20            | ●          |                | ●              | c                     | c                   |                |                | ●         |                |                       |                     |   | ● |  |  |  |  |  |
| MPIV5C                                                                                                                                                    | Industrial variant 5 bulkhead modular plug cap.                                                                                                                                                                                                                                                                                                                                                                                                               | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | -20            | ●          |                | ●              | c                     | c                   |                |                | ●         |                |                       |                     |   | ● |  |  |  |  |  |
| Copper Patch Cords                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| Category 6A                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| ISTP6X**                                                                                                                                                  | IndustrialNet™, Category 6A, Shielded, Patch Cord with Caps.                                                                                                                                                                                                                                                                                                                                                                                                  | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| ISTP6X**R                                                                                                                                                 | IndustrialNet™, Category 6A, Shielded, Patch Cord Hybrid with Cap.                                                                                                                                                                                                                                                                                                                                                                                            | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| UTP6A***                                                                                                                                                  | Category 6A, UTP patch cord.                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                      | 1 | 1 | 1 | x                    | x          | x                  | x           | x                 | x              |              |           |                    |             |                   |                |                   | x     |                | x          | x              | x              | x                     | x                   | x              |                |           |                |                       |                     | x |   |  |  |  |  |  |
| ICX^                                                                                                                                                      | IndustrialNet™, Category 6A, M12 X-Code, Overmolded Cordsets.                                                                                                                                                                                                                                                                                                                                                                                                 | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              |            | ●              |                | ●                     | c                   | c              | ●              |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| Category 6                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| ISTPSP**                                                                                                                                                  | IndustrialNet™, Category 6, Shielded, Stranded Patch Cord with Caps.                                                                                                                                                                                                                                                                                                                                                                                          | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| ISTPSPNC**                                                                                                                                                | IndustrialNet™, Category 6, Shielded, Stranded Patch Cord.                                                                                                                                                                                                                                                                                                                                                                                                    | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| IUTPSP**                                                                                                                                                  | IndustrialNet™, Category 6, UTP, Stranded Patch Cord with Caps                                                                                                                                                                                                                                                                                                                                                                                                | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| IUTPSPNC**                                                                                                                                                | IndustrialNet™, Category 6, UTP, Stranded Patch Cord.                                                                                                                                                                                                                                                                                                                                                                                                         | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| Category 5e                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |            |                    |             |                   |                |              |           |                    |             |                   |                |                   |       |                |            |                |                |                       |                     |                |                |           |                |                       |                     |   |   |  |  |  |  |  |
| ISTPCH**Y                                                                                                                                                 | IndustrialNet™, Category 5e, Shielded, Stranded Patch Cord with Caps.                                                                                                                                                                                                                                                                                                                                                                                         | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| ISTPCHNC**Y                                                                                                                                               | IndustrialNet™, Category 5e, Shielded, Stranded Patch Cord.                                                                                                                                                                                                                                                                                                                                                                                                   | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| ISTPHCH**                                                                                                                                                 | IndustrialNet™, Category 5e, Shielded, 600V, Patch Cord.                                                                                                                                                                                                                                                                                                                                                                                                      | 1                      | 1 | 1 | 2 | ●                    | ●          | —                  | x           | x                 | ●              |              |           |                    |             |                   |                |                   | x     |                | -20        | x              | x              | x                     | x                   | x              |                |           |                |                       |                     |   | ● |  |  |  |  |  |
| IUTPCH**Y                                                                                                                                                 | IndustrialNet™, Category 5e, UTP, Stranded Patch Cord with Caps.                                                                                                                                                                                                                                                                                                                                                                                              | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| IUTPCHNC**Y                                                                                                                                               | IndustrialNet™, Category 5e, UTP, Stranded Patch Cord.                                                                                                                                                                                                                                                                                                                                                                                                        | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              | -20        | ●              |                | ●                     | c                   | c              |                |           | ●              |                       |                     |   | ● |  |  |  |  |  |
| ICD^                                                                                                                                                      | IndustrialNet™, Category 5e, M12 D-Code, Overmolded Cordsets.                                                                                                                                                                                                                                                                                                                                                                                                 | 3                      | 3 | 2 | 2 |                      |            |                    |             |                   |                | ●            | ●         | —                  | ●           | ●                 | ●              |                   | ●     | ●              |            | ●              |                | ●                     | c                   | c              | ●              |           | ●              |                       |                     |   | ● |  |  |  |  |  |

| LEGEND:<br>● = Acceptable for use in Environment<br><br>x = Not Acceptable for use in Environment<br><br>— = Not Applicable<br><br>c = Contact Tech Support |                                                                                                                                                                | NOTE:<br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. |           | MICE (Final Rating) |             | Detailed MICE Rating |         |       |           |                    |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-------------|----------------------|---------|-------|-----------|--------------------|----------------|-------------------|---------|----------|-------|----------------|----------------|-------------------|----------------|-----------------------|---------------------|----------------|------------|-----------------------|----------------|-----------------------|---------------------|----------------|----------------|
|                                                                                                                                                             |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             | Mechanical           |         |       |           |                    |                |                   |         |          |       | Ingress        |                | Climatic/Chemical |                |                       |                     |                |            |                       |                | EMI                   |                     |                |                |
|                                                                                                                                                             |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             | M <sub>2</sub>       |         |       |           |                    | M <sub>3</sub> |                   |         |          |       | I <sub>2</sub> | I <sub>3</sub> | C <sub>2</sub>    |                |                       |                     | C <sub>3</sub> |            |                       |                | E <sub>2</sub>        | E <sub>3</sub>      |                |                |
| Part Number                                                                                                                                                 | Product Description                                                                                                                                            | shock                                                                                                                                                                                                                                                                                                                                                                                                                                                         | vibration | *Tensile Connected  | compression | impact resistance    | torsion | shock | vibration | *Tensile Connected | compression    | impact resistance | torsion | IP 54/65 | IP 67 | -25°C to +70°C | 1,0 °C/min     | See C3            | oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C | 3,0 °C/min | 1120 W/m <sup>2</sup> | oil resistance | res. liquid chemicals | res. gaseous agents | E <sub>2</sub> | E <sub>3</sub> |
| FSPD6****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 62.5µm multimode OM1 (available in 2, 4, 8 or 12-fibers).                                              | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FSAD6****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 62.5µm multimode OM1 (available in 2, 4, 6, 8 or 12-fibers).                                           | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FSPD5****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 50µm multimode OM2 (available in 2, 4, 8 or 12-fibers).                                                | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FSAD5****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 50µm multimode OM2, (available in 2, 4, 6, 8 or 12-fibers).                                            | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FOADX08                                                                                                                                                     | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 50µm multimode OM3, 8-fiber.                                                                           | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       | ●     |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FOADZ****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 50µm multimode OM4 (available in 2, 4, 6, 8 or 12-fibers).                                             | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FSAD9****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 9µm singlemode OS2 (available in 2, 4, 6, 8 or 12-fibers).                                             | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| FSPD9****                                                                                                                                                   | Fiber indoor DCF cable, riser (OFNR), LSZH-3 (60332-3), 9µm singlemode OS2 (available in 2, 4, 8 or 12-fibers).                                                | ●                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ●         | ●                   |             | x                    | ●       |       |           |                    |                |                   |         |          | —     | x              | ●              |                   | ●              | c                     | c                   |                |            | ●                     |                |                       |                     |                | ●              |
| CCCSR10BL                                                                                                                                                   | DCF (Dielectric Conduited Fiber) cable strain relief.                                                                                                          | —                                                                                                                                                                                                                                                                                                                                                                                                                                                             | —         | —                   | —           | —                    | —       |       |           |                    |                |                   |         |          | —     | —              | —              | —                 | —              | —                     | —                   |                |            |                       |                |                       |                     | —              |                |
| Fiber Connectivity                                                                                                                                          |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             |                      |         |       |           |                    |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |
| IAEF7JMA                                                                                                                                                    | IndustrialNet™ LC Duplex Fiber Optic Bulkhead Adapter.                                                                                                         | —                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3         | 2                   | 3           |                      |         |       |           |                    | ●              | ●                 | —       | ●        | ●     | ●              | ●              | -20               | ●              |                       | ●                   | c              | c          |                       |                |                       |                     |                | ●              |
| Fiber Patch Cords and Pigtails                                                                                                                              |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             |                      |         |       |           |                    |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |
| IAEF617P-7PM**                                                                                                                                              | Industrial LC to LC multimode duplex patch cord – 62.5/125µm.                                                                                                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3         | 2                   | 3           |                      |         |       |           |                    | ●              | ●                 | —       | ●        | ●     | ●              | ●              | -20               | ●              |                       | ●                   | c              | c          |                       |                | ●                     |                     |                | ●              |
| IAEF617P-NM**                                                                                                                                               | Industrial LC to pigtail multimode duplex pigtail – 62.5/125µm.                                                                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3         | 2                   | 3           |                      |         |       |           |                    | ●              | ●                 | —       | ●        | ●     | ●              | ●              | -20               | ●              |                       | ●                   | c              | c          |                       |                | ●                     |                     |                | ●              |
| Pre-Configured Micro Data Center                                                                                                                            |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             |                      |         |       |           |                    |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |
| MDC48D                                                                                                                                                      | Pre-configured micro data center, 24 RU, includes two side panels, network cabling, patch panels, cable management, grounding, casters, shock pallet and ramp. | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1         | c                   | 2           | x                    | x       | —     | —         | x                  | —              |                   |         |          |       |                |                | x                 | x              | x                     | x                   | x              | x          |                       |                |                       |                     |                | ●              |
| MDC79                                                                                                                                                       | Pre-configured micro data center, 42 RU, includes two side panels, network cabling, patch panels, cable management, grounding, and casters.                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1         | c                   | 2           | x                    | x       | —     | —         | x                  | —              |                   |         |          |       |                |                | x                 | x              | x                     | x                   | x              | x          |                       |                |                       |                     |                | ●              |
| MDC79D                                                                                                                                                      | Pre-configured micro data center, 42 RU, includes two side panels, network cabling, patch panels, cable management, grounding, casters, shock pallet and ramp. | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1         | c                   | 2           | x                    | x       | —     | —         | x                  | —              |                   |         |          |       |                |                | x                 | x              | x                     | x                   | x              | x          |                       |                |                       |                     |                | ●              |
| Pre-Configured Industrial Distribution Frames                                                                                                               |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                     |             |                      |         |       |           |                    |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |
| ZDF242430                                                                                                                                                   | Pre-configured industrial distribution frame enclosure, 12U, ready for two access or two distribution switches.                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2         | c                   | —           | x                    | x       | —     | —         | x                  | —              |                   |         |          |       |                |                | ●                 | x              | ●                     | ●                   | ●              | ●          | ●                     |                |                       |                     |                | —              |
| ZDF242430-6                                                                                                                                                 | Pre-configured industrial distribution frame enclosure, 12U, 316 stainless steel, ready for two access or two distribution switches.                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2         | c                   | —           | x                    | x       | —     | —         | x                  | —              |                   |         |          |       |                |                | ●                 | x              | ●                     | ●                   | ●              | ●          | ●                     |                |                       |                     |                | —              |
| ZDF48-RA                                                                                                                                                    | Pre-configured industrial distribution frame enclosure ready for two access and two distribution switches.                                                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2         | c                   | —           | x                    | x       | —     | —         | x                  |                |                   |         |          |       |                |                |                   |                |                       |                     |                |            |                       |                |                       |                     |                |                |

|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MICE<br>(Final Rating) |   |   |   | Detailed MICE Rating |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|---|---|----------------------|-------------------------|----------------------------|----------------------------|--------------------------|---------|-------------------|---------------------------|-------------------------|----------------------------|--------------------------|---------|----------|-------|-----------------------------------|----------------------------|-------------------------|-----------------------------|-----------------------|---------------------|-----------------------------------|----------------------------|----------------------------------------|-----------------------------|-----------------------|---------------------|--|--|---|--|--|--|
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   | Mechanical           |                         |                            |                            |                          |         |                   |                           | Ingress                 |                            | Climatic/Chemical        |         |          |       |                                   |                            |                         |                             |                       |                     | EMI                               |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
|                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   | M <sub>2</sub>       |                         |                            |                            | M <sub>3</sub>           |         |                   |                           | I <sub>2</sub>          | I <sub>3</sub>             | C <sub>2</sub>           |         |          |       |                                   | C <sub>3</sub>             |                         |                             |                       |                     | E <sub>2</sub>                    | E <sub>3</sub>             |                                        |                             |                       |                     |  |  |   |  |  |  |
| LEGEND:<br>• = Acceptable for use in Enviroment<br><br>x = Not Acceptable for use in Enviroment<br><br>— = Not Applicable<br><br>c = Contact Tech Support | NOTE:<br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. | M                      | I | C | E | shock<br>100 ms-1    | vibration<br>7mm/20ms-1 | *Tensile Connected<br>300N | compression<br>1100N/150mm | impact resistance<br>10J | torsion | shock<br>250 ms-1 | vibration<br>15mm/50 ms-1 | *Tensile Connected<br>2 | compression<br>2200N/150mm | impact resistance<br>30J | torsion | IP 54/65 | IP 67 | -25°C to +70°C<br>operation temp. | 1.0 °C/min<br>temp. change | See C3<br>sun radiation | < 5.0 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C<br>operation temp. | 3.0 °C/min<br>temp. change | 1120 W/m <sup>2</sup><br>sun radiation | < 500 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents |  |  |   |  |  |  |
| Part Number                                                                                                                                               | Product Description                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
| Network Zone System                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
| 24" x 24" Enclosures – Category 6A Connectivity and Fiber Uplink Patch Cords and Adaptors                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
| Z22C-SS                                                                                                                                                   | Pre-configured network zone system, 24" x 24", mild steel enclosure, for two industrial switches, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber patch cords with (6) LC adaptors, backplane and cable management.                                                                                                                                                                                                                | 1                      | 2 | 1 | 2 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | • |  |  |  |
| Z22U-S14S                                                                                                                                                 | Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adaptors and redundant power supplies.                                                                                                                                                                                                                      | 1                      | 2 | c | 2 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | • |  |  |  |
| Z22U-S15S                                                                                                                                                 | Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adaptors, redundant power supplies and maintenance-free UPS.                                                                                                                                                                                                | 1                      | 2 | c | 2 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | • |  |  |  |
| 24" x 24" Enclosures – Category 6 Connectivity and Fiber Uplink Patch Cords and Adaptors                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |          |       |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |  |  |   |  |  |  |
| Z22C-S                                                                                                                                                    | Pre-Configured network zone system, 24" x 24", mild steel enclosure, for two industrial switches, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber patch cords with (6) LC adaptors, backplane and cable management.                                                                                                                                                                                                                 | 1                      | 2 | 1 | 1 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | x |  |  |  |
| Z22U-S14                                                                                                                                                  | Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adaptors and redundant power supplies.                                                                                                                                                                                                                       | 1                      | 2 | c | 1 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | x |  |  |  |
| Z22U-S15                                                                                                                                                  | Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adaptors, redundant power supplies and maintenance-free UPS.                                                                                                                                                                                                 | 1                      | 2 | c | 1 | x                    | x                       | —                          | —                          | x                        | —       |                   |                           |                         |                            |                          |         |          | •     |                                   | x                          | •                       | •                           | •                     | •                   | •                                 |                            |                                        |                             |                       |                     |  |  | x |  |  |  |

(continued)

|                                                                                           |                                                                                                                                                                                                                                                                              | MICE<br>(Final Rating) |   |   |   | Detailed MICE Rating |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|---|---|----------------------|------------|--------------------|-------------|-------------------|----------------|----------|--------------|--------------------|-------------|-------------------|----------------|-------------------|-------|-----------------|--------------|----------------|----------------|-----------------------|---------------------|-----------------|----------------|---------------|----------------|-----------------------|---------------------|--|--|--|---|--|--|--|--|
|                                                                                           |                                                                                                                                                                                                                                                                              |                        |   |   |   | Mechanical           |            |                    |             |                   |                |          |              |                    |             | Ingress           |                | Climatic/Chemical |       |                 |              |                |                |                       |                     | EMI             |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
|                                                                                           |                                                                                                                                                                                                                                                                              |                        |   |   |   | M <sub>2</sub>       |            |                    |             |                   | M <sub>3</sub> |          |              |                    |             | I <sub>2</sub>    | I <sub>3</sub> | C <sub>2</sub>    |       |                 |              | C <sub>3</sub> |                |                       |                     | E <sub>2</sub>  | E <sub>3</sub> |               |                |                       |                     |  |  |  |   |  |  |  |  |
| LEGEND:                                                                                   | NOTE:                                                                                                                                                                                                                                                                        | M                      | I | C | E | 100 ms-1             | 7mm/20ms-1 | 300N               | 1100N/150mm | 10J               |                | 250 ms-1 | 15mm/50 ms-1 | 2                  | 2200N/150mm | 30J               |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| • = Acceptable for use in Enviroment                                                      | In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.                                                                                                             |                        |   |   |   | shock                | vibration  | *Tensile Connected | compression | impact resistance | torsion        | shock    | vibration    | *Tensile Connected | compression | impact resistance | torsion        | IP 54/65          | IP 67 | operation temp. | temp. change | sun radiation  | oil resistance | res. liquid chemicals | res. gaseous agents | operation temp. | temp. change   | sun radiation | oil resistance | res. liquid chemicals | res. gaseous agents |  |  |  |   |  |  |  |  |
| x = Not Acceptable for use in Enviroment                                                  | *Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| — = Not Applicable                                                                        |                                                                                                                                                                                                                                                                              |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| c = Contact Tech Support                                                                  |                                                                                                                                                                                                                                                                              |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| Part Number                                                                               | Product Description                                                                                                                                                                                                                                                          |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| Network Zone System (continued)                                                           |                                                                                                                                                                                                                                                                              |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| 24" x 36" Enclosures – Category 6A Connectivity and Fiber Uplink Patch Cords and Adaptors |                                                                                                                                                                                                                                                                              |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| Z23U-S24S                                                                                 | Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adaptors and redundant power supplies.                                  | 1                      | 2 | c | 2 | x                    | x          | —                  | —           | x                 | —              |          |              |                    |             |                   |                |                   |       | •               |              | x              | •              | •                     | •                   | •               | •              |               |                |                       |                     |  |  |  | • |  |  |  |  |
| Z23U-S25S                                                                                 | Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adaptors, redundant power supplies and (2) maintenance-free UPS.        | 1                      | 2 | c | 2 | x                    | x          | —                  | —           | x                 | —              |          |              |                    |             |                   |                |                   |       | •               |              | x              | •              | •                     | •                   | •               | •              |               |                |                       |                     |  |  |  | • |  |  |  |  |
| 24" x 36" Enclosures - Category 6 Connectivity and Fiber Uplink Patch Cords and Adaptors  |                                                                                                                                                                                                                                                                              |                        |   |   |   |                      |            |                    |             |                   |                |          |              |                    |             |                   |                |                   |       |                 |              |                |                |                       |                     |                 |                |               |                |                       |                     |  |  |  |   |  |  |  |  |
| Z23C-S                                                                                    | Pre-Configured network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber patch cords with (6) adaptors, backplane and cable management.                                  | 1                      | 2 | 1 | 1 | x                    | x          | —                  | —           | x                 | —              |          |              |                    |             |                   |                |                   |       | •               |              | x              | •              | •                     | •                   | •               | •              |               |                |                       |                     |  |  |  | x |  |  |  |  |
| Z23U-S24                                                                                  | Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adaptors and redundant power supplies.                                   | 1                      | 2 | c | 1 | x                    | x          | —                  | —           | x                 | —              |          |              |                    |             |                   |                |                   |       | •               |              | x              | •              | •                     | •                   | •               | •              |               |                |                       |                     |  |  |  | x |  |  |  |  |
| Z23U-S25                                                                                  | Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Catetory 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adaptors, redundant power supplies and (2) maintenance-free UPS.         | 1                      | 2 | c | 1 | x                    | x          | —                  | —           | x                 | —              |          |              |                    |             |                   |                |                   |       | •               |              | x              | •              | •                     | •                   | •               | •              |               |                |                       |                     |  |  |  | x |  |  |  |  |



|                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MICE<br>(Final Rating)     |   |   |   | Detailed MICE Rating |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---|---|---|----------------------|-------------------------|----------------------------|----------------------------|--------------------------|---------|-------------------|---------------------------|-------------------------|----------------------------|--------------------------|---------|-------------------|-----------------------------------|----------------------------|-------------------------|-----------------------------|-----------------------|---------------------|-----------------------------------|----------------------------|----------------------------------------|-----------------------------|-----------------------|---------------------|---|---|---|---|---|---|---|---|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|--|
|                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   | Mechanical           |                         |                            |                            |                          |         |                   |                           | Ingress                 |                            | Climatic/Chemical        |         |                   |                                   |                            |                         |                             |                       | EMI                 |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
|                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   | M <sub>2</sub>       |                         |                            |                            | M <sub>3</sub>           |         |                   |                           | I <sub>2</sub>          | I <sub>3</sub>             | C <sub>2</sub>           |         |                   |                                   | C <sub>3</sub>             |                         |                             |                       | E <sub>2</sub>      | E <sub>3</sub>                    |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
|                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   | 100 ms-1<br>shock    | 7mm/20ms-1<br>vibration | 300N<br>*Tensile Connected | 1100N/150mm<br>compression | 10J<br>impact resistance | torsion | 250 ms-1<br>shock | 15mm/50 ms-1<br>vibration | 2<br>*Tensile Connected | 2200N/150mm<br>compression | 30J<br>impact resistance | torsion | IP 54/65<br>IP 67 | -25°C to +70°C<br>operation temp. | 1.0 °C/min<br>temp. change | See C3<br>sun radiation | < 5.0 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents | -40°C to +70°C<br>operation temp. | 3.0 °C/min<br>temp. change | 1120 W/m <sup>2</sup><br>sun radiation | < 500 ppm<br>oil resistance | res. liquid chemicals | res. gaseous agents |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| <b>LEGEND:</b><br>● = Acceptable for use in Enviroment<br><br>x = Not Acceptable for use in Enviroment<br><br>— = Not Applicable<br><br>c = Contact Tech Support | <b>NOTE:</b><br>In the case a lower MICE rated part is needed to be used in a higher MICE rated environment please contact Tech Support for further guidance on the application.<br><br>*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels. | M                          | I | C | E |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| <b>Part Number</b>                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Product Description</b> |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| <b>DIN Rail Mount and Fiber Uplink Kits</b>                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| FDME8RG                                                                                                                                                          | IndustrialNet™, 8-port, DIN Rail Fiber Optic Enclosure.                                                                                                                                                                                                                                                                                                                                                                                                              |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | 3 | — | x | — | x | x | — |  |  |  |  | x |   | x | x | x | x | x |   |   |   |   |  |  | ● |   |   |  |
| CADIN1*                                                                                                                                                          | 1-port, DIN rail mount adapter with label.                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 1                   | — | — | — | — | — | — | — |   |  |  |  |  |   | x |   | — | — | — | — | — | — |   |   |  |  | — |   |   |  |
| CDPP8RG                                                                                                                                                          | IndustrialNet™ 8-Port DIN Rail Mount Copper Patch Panel, RG.                                                                                                                                                                                                                                                                                                                                                                                                         |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | —                   | 1 | 1 | x | x | — | x | x | — |  |  |  |  |   |   | — |   | x | x | x | x | x | x |   |  |  |   | x |   |  |
| IAEFKSC                                                                                                                                                          | Industrial Ethernet enclosure fiber uplink kit – SC to MT/RJ.                                                                                                                                                                                                                                                                                                                                                                                                        |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | 1 | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | x | — | — | — | — | — |   |  |  |   | — |   |  |
| IAEFKSP                                                                                                                                                          | Industrial Ethernet enclosure fiber uplink splice kit – MT-RJ or SC.                                                                                                                                                                                                                                                                                                                                                                                                 |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | 1 | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | x | — | — | — | — | — |   |  |  |   | — | ● |  |
| <b>Uninterruptible Power Supply</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| UPS00100DC                                                                                                                                                       | Uninterruptible Power Supply (UPS), 100 Watts for 5 minutes, 24-48 VDC in/out, DIN rail mount.                                                                                                                                                                                                                                                                                                                                                                       |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | — | — | — | — | — | — | — |  |  |  |  |   | — |   | — | — | — | — | — | — |   |   |  |  | — |   |   |  |
| UPS003LSM                                                                                                                                                        | UPS load sense module.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | — | — | — | — | — | — | — |  |  |  |  |   |   | — |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| <b>Data Access Port and Accessories</b>                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| IAPNG5EWH                                                                                                                                                        | Category 5e, IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | 1 | — | x | x | — | x | x | — |  |  |  |  |   | x |   | x | x | x | x | x | x |   |   |  |  | — |   |   |  |
| IAPHF2MWH-X                                                                                                                                                      | Mini-Com®, 2-Position 1/3-Size Insert.                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | —                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | — |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| IAPCMBWH-X                                                                                                                                                       | Mini-Com®, 1-port, Blank Module Insert for use with IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                                                                 |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | —                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | — |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| IAPHB2MWH-X                                                                                                                                                      | Mini-Com®, 1/3-size, Flat Insert, for use with IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | 1 | x | x | — | x | x | — |  |  |  |  |   |   | x |   | x | x | x | x | x | x |   |  |  |   | x |   |  |
| IAPHD15HDCWH                                                                                                                                                     | 15-pin, high-density female/female D-subminiature coupler, 1/3-size insert, for use with IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                            |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | 1 | x | x | — | x | x | — |  |  |  |  |   |   | x |   | x | x | x | x | x | x |   |  |  |   | x |   |  |
| IAPHD15HDSCWH                                                                                                                                                    | 15-pin, high-density, field terminated, D-subminiature Coupler in 1/3-size insert, for use with IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                     |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | 1 | x | x | — | x | x | — |  |  |  |  |   |   | x |   | x | x | x | x | x | x |   |  |  |   | x |   |  |
| IAPHD9CWH                                                                                                                                                        | 9-pin, female/female, D-subminiature coupler in 1/3-size insert, for use with IndustrialNet™ Data Access Port.                                                                                                                                                                                                                                                                                                                                                       |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | 1                     | 1                   | 1 | 1 | x | x | — | x | x | — |  |  |  |  |   |   | x |   | x | x | x | x | x | x |   |  |  |   | x |   |  |
| <b>Faceplates</b>                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| IAEFP1                                                                                                                                                           | Vertical, stainless steel, single gang faceplate accepts one IndustrialNet™ Bulkhead Connector or Adapter.                                                                                                                                                                                                                                                                                                                                                           |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 3                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| IAEFP2-2G                                                                                                                                                        | Vertical, stainless steel, double gang faceplate accepts two IndustrialNet™ Bulkhead Connectors or Adapters.                                                                                                                                                                                                                                                                                                                                                         |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 3                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| <b>Zone Cabling Accessories</b>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             |                       |                     |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |  |   |   |   |  |
| PZNDVK                                                                                                                                                           | Zone cabling drain and vent kit, NEMA 4X rating.                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 3                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| PZNF1                                                                                                                                                            | Zone cabling compression fitting, NEMA 6P cable diameter 0.115-0.250" (2.92mm-6.4mm).                                                                                                                                                                                                                                                                                                                                                                                |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   | ● |   | — | — | — | — | — | — |   |  |  |   | — |   |  |
| PZNF2                                                                                                                                                            | Zone cabling compression fitting, NEMA 6P cable diameter 0.230-0.395" (6.4mm-10mm).                                                                                                                                                                                                                                                                                                                                                                                  |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   |   | ● |   | — | — | — | — | — | — |  |  |   |   | — |  |
| PZNF3                                                                                                                                                            | Zone cabling compression fitting, NEMA 6P cable diameter 0.170-0.450" (4.3mm-11.4mm).                                                                                                                                                                                                                                                                                                                                                                                |                            |   |   |   |                      |                         |                            |                            |                          |         |                   |                           |                         |                            |                          |         |                   |                                   |                            |                         |                             |                       |                     |                                   |                            |                                        |                             | —                     | 2                   | — | — | — | — | — | — | — | — |  |  |  |  |   |   |   | ● |   | — | — | — | — | — | — |  |  |   |   | — |  |

\* Available in multiple colors.



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