

# Category 5e Flooded 350 MHz Polyethylene Jacket

## Part No.: 5AEFLDMESS

### Applications

Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited for high bandwidth applications such as 622 ATM, Wideband, and Ethernet 1000BASE-T

### Construction Details:

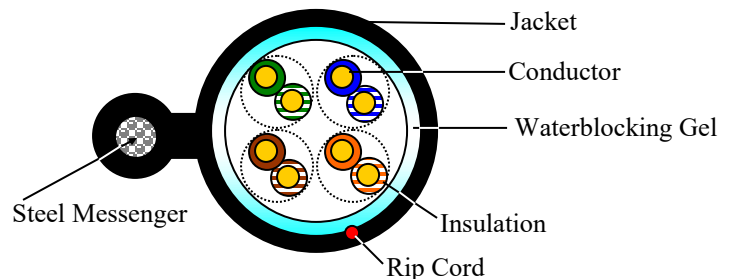
|                           |                          |
|---------------------------|--------------------------|
| Conductor:                | 24 AWG Solid Bare Copper |
| Number of Pairs:          | 4 Pair                   |
| Flooding Compound:        | Waterblocking Gel        |
| Messenger:                | 0.045 in. Steel          |
| Construction Type:        | Siamese                  |
| Jacket Material:          | Polyethylene             |
| Nominal Jacket Thickness: | 0.022 in.                |
| Surface Print:            | Per Customer Requirement |

### Insulation Color Code:

| Pair | Color Code        |
|------|-------------------|
| 1    | Blue with White   |
| 2    | Orange with White |
| 3    | Green with White  |
| 4    | Brown with White  |

### Electrical Parameters:

|                           |  |
|---------------------------|--|
| Mutual Capacitance:       | 14 pF/ft nominal   |
| Capacitance Unbalance:    | 330 pF/ft maximum  |
| Velocity of Propagation:  | 70%  |
| Max. Conductor D.C.R.:    | 28.6 ohm/1000 feet   |
| Max. DCR Unbalance:       | 5%   |
| Max. Delay Skew:          | 45.0ns/100m  |
| Characteristic Impedance: | from 0.772 - 100 MHz 100 ± 15%<br>from 101 - 200 MHz 100 ± 22%<br>from 201 - 350 MHz 100 ± 32% |



### Technical Details

|                           |   |
|---------------------------|---|
| Temperature Rating        |   |
| Installation:             | -20°C to 50°C                                   |
| Operation:                | -20°C to 60°C                                   |
| Nominal Overall Diameter: | Minor over Cat5e: 0.225 in.<br>Major: 0.338 in. |
| Jacket Color:             | Black   |
| Nominal Weight:           | 29 lbs/ 1,000 feet                              |

### Standards

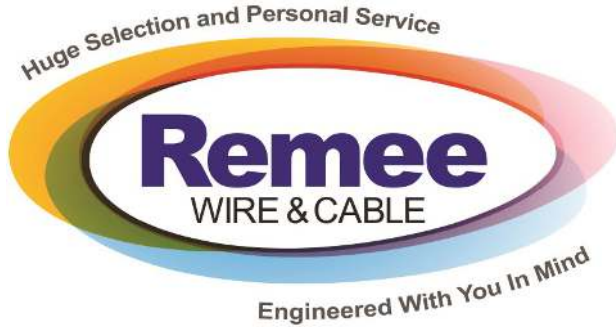
- ANSI/TIA/EIA 568C.2 Category 5e

### Codes & Listings

- Non-Listed



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## Electrical Characteristics:

| Frequency | SRL     | Return Loss | Attenuation | NEXT    | PS-NEXT | ELFEXT  | PS-ELFEXT | ACR     | PS-ACR  |
|-----------|---------|-------------|-------------|---------|---------|---------|-----------|---------|---------|
|           | dB      | dB          | dB/100m     | dB      | dB      | dB      | dB        | dB      | dB      |
| MHz       | Minimum | Minimum     | Maximum     | Minimum | Minimum | Minimum | Minimum   | Minimum | Minimum |
| 1         | 23.0    | 20.0        | 2.0         | 70.3    | 68.3    | 63.8    | 60.8      | 68.3    | 66.3    |
| 4         | 23.0    | 20.3        | 4.0         | 61.3    | 59.3    | 51.7    | 48.7      | 57.3    | 55.3    |
| 10        | 23.0    | 25.0        | 6.4         | 55.3    | 53.3    | 43.8    | 40.8      | 48.9    | 46.9    |
| 16        | 23.0    | 25.0        | 8.2         | 52.3    | 50.3    | 39.7    | 36.7      | 44.1    | 42.1    |
| 20        | 23.0    | 25.0        | 9.2         | 50.8    | 48.8    | 37.7    | 34.7      | 41.6    | 39.6    |
| 31.25     | 21.1    | 23.6        | 11.7        | 47.9    | 45.9    | 33.9    | 30.9      | 36.2    | 34.2    |
| 62.5      | 18.1    | 21.5        | 16.9        | 43.4    | 41.4    | 27.8    | 24.8      | 26.5    | 24.5    |
| 100       | 16.0    | 20.1        | 21.9        | 40.3    | 38.3    | 23.8    | 20.8      | 18.4    | 16.4    |
| 250       | 12.0    | 17.3        | 36.8        | 34.3    | 32.3    | 15.8    | 12.8      | ---     | ---     |
| 300       | 11.2    | 16.8        | 40.9        | 33.2    | 31.2    | 14.2    | 11.2      | ---     | ---     |
| 350       | 10.6    | 16.3        | 44.8        | 32.2    | 30.2    | 12.9    | 9.9       | ---     | ---     |

### Preparation For Shipment

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

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