

**Product:** [AV2183R](#) 

## 4K UHD Media Patch Cord CMR



### Product Description

4K UHD Media Patch Cord, Shielded 4 Pair, 23 AWG Solid, CMR, T568A/B-T568A/B (cable 2183R)

### Technical Specifications

#### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | HDBaseT, Full 5-Play, 4K (UHD/DCI), POH, POE. |
|------------------------|---|

#### Physical Characteristics (Overall)

##### Conductor

| AWG | Stranding | Material         | No. of Pairs |
|-----|-----------|------------------|--------------|
| 23  | Solid     | BC - Bare Copper | 4            |

|                        |   |
|------------------------|---|
| Total Number of Pairs: | 4 |
|------------------------|---|

##### Insulation

| Material           |
|--------------------|
| PP - Polypropylene |

##### Outer Shield

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|--------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%         | TC - Tinned Copper | 26            |

|                           |  |
|---------------------------|--|
| Outer Shield Table Notes: | Drain wire applied helically for added flexibility |
|---------------------------|--|

##### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | .290 in.         |

|                |                 |
|----------------|-----------------|
| Wiring Scheme: | T568A/B-T568A/B |
|----------------|-----------------|

|            |   |
|------------|---|
| Packaging: | Individually packaged in a clear plastic bag. |
|------------|---|

#### Connectors

##### Materials

| Description      | Material   | Type   |
|------------------|--|--------|
| Plug             | Polycarbonate  | RJ45   |
| Boot             | Polycarbonate  |        |
| Front Connection | Phosphor Bronze with 50u inch Gold over Nickel Plating | Blades |

#### Electrical Characteristics

|                         |                                  |
|-------------------------|----------------------------------|
| Dielectric Strength:    | 1,000 V RMS @ 60 Hz for 1 minute |
| Current Rating:         | 1.500 A                          |
| Insulation Resistance:  | 500 M-Ohm Minimum                |
| Max Contact Resistance: | 20 mOhm                          |

##### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
|-----------------|-----------------------------------|

|            |                |
|------------|----------------|
| 1 MHz      | 2.000 dB/100m  |
| 4 MHz      | 3.800 dB/100m  |
| 8 MHz      | 4.300 dB/100m  |
| 10 MHz     | 5.900 dB/100m  |
| 16 MHz     | 7.500 dB/100m  |
| 20 MHz     | 8.300 dB/100m  |
| 25 MHz     | 9.300 dB/100m  |
| 62.500 MHz | 14.800 dB/100m |
| 31.250 MHz | 10.400 dB/100m |
| 100 MHz    | 18.800 dB/100m |
| 125 MHz    | 21.000 dB/100m |
| 155 MHz    | 23.000 dB/100m |
| 175 MHz    | 24.900 dB/100m |
| 200 MHz    | 26.600 dB/100m |
| 250 MHz    | 29.800 dB/100m |
| 300 MHz    | 32.700 dB/100m |
| 400 MHz    | 37.900 dB/100m |
| 500 MHz    | 42.500 dB/100m |

## Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C To +60°C |
| Storage Temperature Range:      | -40°C To +70°C |
| Operating Temperature Range:    | -10°C To +60°C |

## Mechanical Characteristics

|                                      |            |
|--------------------------------------|------------|
| Maximum Recommended Pulling Tension: | 11.250 lbs |
| Min Bend Radius (Overall Cable):     | 2.200 in.  |
| Plug /Jack Compatibility:            | RJ45       |

## Termination Interface

| Termination | Connection       | Durabilities |
|-------------|------------------|--------------|
| RJ45        | Mated Connection | 750 Cycles   |

## Standards

|                       |                                     |
|-----------------------|-------------------------------------|
| NEC/(UL) Compliance:  | CMR                                 |
| CEC/C(UL) Compliance: | CMR                                 |
| UL Rating:            | Riser                               |
| Other Standards:      | FCC Part 68, Subpart F, IEC 60603-7 |

## Applicable Environmental and Other Programs

|                                 |        |
|---------------------------------|--------|
| EU Directive 2002/95/EC (RoHS): | Yes    |
| MII Order #39 (China RoHS):     | EUP 50 |

## Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

## Flammability, LS0H, Toxicity Testing

|                 |                |
|-----------------|----------------|
| Safety Listing: | c(UL)us Listed |
|-----------------|----------------|

## Related Part Numbers

### Variants

| Item #        | Color       | Length |
|---------------|-------------|--------|
| AV2183R100005 | Black       | 5 ft   |
| AV2183R100007 | Black       | 7 ft   |
| AV2183R100017 | Black       | 17 ft  |
| AV2183R100050 | Black       | 50 ft  |
| AV2183R106005 | Blue, Light | 5 ft   |
| AV2183R106007 | Blue, Light | 7 ft   |
| AV2183R106017 | Blue, Light | 17 ft  |
| AV2183R106050 | Blue, Light | 50 ft  |

## Product Notes

|           |   |
|-----------|---|
| Labeling: | Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length. |
|-----------|---|

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.67 Revision Date: 05-10-2023 |
|----------------------|---|

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