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1-800-Belden1



### General Description:

2 Conductor 16AWG and 2 Conductor 22AWG, Riser

### Multi Conductor

#### Physical Characteristics

##### Conductor

###### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 16  | 19x29     | TC - Tinned Copper |
| 2            | 22  | 7x30      | TC - Tinned Copper |

##### Insulation

###### Insulation Material:

| Insulation Material      | Wall Thickness (mm) | AWG |
|--------------------------|---------------------|-----|
| PVC - Polyvinyl Chloride | 0.305               | 22  |
| PVC - Polyvinyl Chloride | 0.381               | 16  |

###### Insulation Color Code Chart:

| Number | Color | Description |
|--------|-------|-------------|
| 1      | Red   | 22 AWG      |
| 2      | Gray  | 22 AWG      |
| 3      | Black | 16 AWG      |
| 4      | White | 16 AWG      |

##### Individual Shield

#### Electrical Characteristics

###### Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/km) |
|-------------|---------------------|
| 22 AWG      | 57.418              |
| 16 AWG      | 14.765              |

###### Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 9.187               |

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

###### Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 95.000       |

#### Outer Jacket

###### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.635                    |

#### Overall Cable

Overall Nominal Diameter: 6.350 mm

### Mechanical Characteristics (Overall)

## 7825R Composite - HD Camera Electrical Cable

|  |                |
|--|----------------|
| <b>Operating Temperature Range:</b>      | -30°C To +60°C |
| <b>Bulk Cable Weight:</b>                | 71.434 Kg/Km   |
| <b>Max. Recommended Pulling Tension:</b> | 653.885 N      |
| <b>Min. Bend Radius/Minor Axis:</b>      | 63.500 mm      |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|  |          |
|--|----------|
| <b>NEC/(UL) Specification:</b>               | CMR      |
| <b>CEC/C(UL) Specification:</b>              | CMG      |
| <b>EU Directive 2011/65/EU (ROHS II):</b>    | Yes      |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes      |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes      |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes      |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes      |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes      |
| <b>MII Order #39 (China RoHS):</b>           | Yes      |
| <b>Other Specification:</b>                  | SMPTE311 |

#### Flame Test

|                        |                       |
|------------------------|-----------------------|
| <b>UL Flame Test:</b>  | UL1666 Vertical Shaft |
| <b>CSA Flame Test:</b> | FT4                   |

#### Suitability

|                              |     |
|------------------------------|-----|
| <b>Suitability - Indoor:</b> | Yes |
|------------------------------|-----|

#### Plenum/Non-Plenum

|                       |       |
|-----------------------|-------|
| <b>Plenum (Y/N):</b>  | No    |
| <b>Plenum Number:</b> | 7815P |

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc               |
|---------------|----------|-------------|-------|-------|-------------------------|
| 7825R 0101000 | 1,000 FT | 50.000 LB   | BLACK |       | COMPOSITE CABLE BRD PVC |
| 7825R 0102000 | 2,000 FT | 102.000 LB  | BLACK |       | COMPOSITE CABLE BRD PVC |
| 7825R 0102500 | 2,500 FT | 127.500 LB  | BLACK |       | COMPOSITE CABLE BRD PVC |
| 7825R 0104000 | 4,000 FT | 200.000 LB  | BLACK |       | COMPOSITE CABLE BRD PVC |

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