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### General Description:

20 AWG stranded (7x28) tinned copper conductors, PVC insulation, twisted pair, tinned copper spiral wrapped shield (90% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 20  | 7x28      | TC - Tinned Copper |

Total Number of Conductors: 2

#### Insulation

Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.4064              |

#### Outer Shield

Outer Shield Material:

| Type         | Outer Shield Material | Coverage (%) |
|--------------|-----------------------|--------------|
| Spiral Serve | TC - Tinned Copper    | 90.000       |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 5.055 mm

#### Pair

Pair Color Code Chart:

| Number | Color       |
|--------|-------------|
| 1      | Black & Red |

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2095) |
| Bulk Cable Weight:                | 34.229 Kg/Km             |
| Max. Recommended Pulling Tension: | 111.205 N                |
| Min. Bend Radius/Minor Axis:      | 50.800 mm                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CMG                        |
| CEC/C(UL) Specification:              | CMG                        |
| AWM Specification:                    | UL Style 2095 (300 V 80°C) |
| EU Directive 2011/65/EU (ROHS II):    | Yes                        |
| EU CE Mark:                           | Yes                        |
| EU Directive 2000/53/EC (ELV):        | Yes                        |
| EU Directive 2002/95/EC (RoHS):       | Yes                        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005                 |
| EU Directive 2002/96/EC (WEEE):       | Yes                        |
| EU Directive 2003/11/EC (BFR):        | Yes                        |

## METRIC MEASUREMENT VERSION

## 8759 Multi-Conductor - Single-Pair Cable

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

### Flame Test

CSA Flame Test: FT4

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

43

### Nom. Inductance:

Inductance (µH/m)

0.55777

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

154.207

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

259.199

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.81

### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Max. Recommended Current:

Current

3.9 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|---------------|----------|-------------|--------|-------|-----------------------|
| 8759 060U1000 | 1,000 FT | 24.000 LB   | CHROME |       | 1 PR #20 PVC SHLD PVC |
| 8759 060U500  | 500 FT   | 12.500 LB   | CHROME |       | 2 #20 PVC SHLD PVC    |
| 8759 0601000  | 1,000 FT | 25.000 LB   | CHROME | C     | 1 PR#20 PVC SHLD PVC  |

### Notes:

C = CRATE REEL PUT-UP.

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