

**9556 Multi-Conductor - 300V Power-Limited Tray Cable**

For more Information  
please call

1-800-Belden1

**General Description:**

18 AWG pairs stranded (19x30) tinned copper conductors, twisted pairs, PVC insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 6       | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 12

**Insulation****Insulation Material:**

| Insulation Material      |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 18  | 7x26      | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.3462                   |

Outer Jacket Ripcord: Yes

**Overall Cable****Overall Cabling Lay Length & Direction:**

| Direction     |
|---------------|
| Left-hand Lay |

Overall Nominal Diameter: 12.624 mm

**Pair****Pair Color Code Chart:**

| Number | Color                      |
|--------|----------------------------|
| 1      | Black & Red and Numbered 1 |
| 2      | Black & Red and Numbered 2 |
| 3      | Black & Red and Numbered 3 |
| 4      | Black & Red and Numbered 4 |
| 5      | Black & Red and Numbered 5 |
| 6      | Black & Red and Numbered 6 |

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -30°C To +105°C

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|                                   |               |
|-----------------------------------|---------------|
| UL Temperature Rating:            | 105°C         |
| Bulk Cable Weight:                | 199.419 Kg/Km |
| Max. Recommended Pulling Tension: | 1201.010 N    |
| Min. Bend Radius/Minor Axis:      | 127 mm        |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |                      |
|---------------------------------------|----------------------|
| NEC/UL) Specification:                | CMG, ITC-ER, PLTC-ER |
| CEC/C(UL) Specification:              | CMG                  |
| 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): | 04/01/2005           |
| EU Directive 2002/96/EC (WEEE):       | Yes                  |
| EU Directive 2003/11/EC (BFR):        | Yes                  |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                  |
| MII Order #39 (China RoHS):           | Yes                  |

**Flame Test**

|                   |                    |
|-------------------|--------------------|
| UL Flame Test:    | UL1685 FT4 Loading |
| C(UL) Flame Test: | FT4                |
| IEEE Flame Test:  | 1202               |

**Suitability**

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Burial:  | Yes |
| Sunlight Resistance:   | Yes |

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

**Surface Printing (Overall)**

|                   |   |
|-------------------|---|
| Surface Printing: | LEGEND: BELDEN 9556 E34972 6PR18 SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL) CMG ----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET |
|-------------------|---|

**Electrical Characteristics (Overall)****Nom. Inductance:**

|                   |
|-------------------|
| Inductance (μH/m) |
| 0.55777           |

**Nom. Capacitance Conductor to Shield:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 177.174            |

**Nom. Capacitance Conductor to Conductor:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 114.835            |

**Nom. Conductor DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 19.5548             |

## 9556 Multi-Conductor - 300V Power-Limited Tray Cable

## Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 29.529              |

## Max. Operating Voltage - UL:

| Voltage                 |
|-------------------------|
| 300 V RMS (PLTC<br>CMG) |
| 150 V RMS (ITC)         |

## Max. Recommended Current:

| Current                       |
|-------------------------------|
| 4.5 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc           |
|--------------|----------|-------------|--------|-------|---------------------|
| 9556 0601000 | 1,000 FT | 165.000 LB  | CHROME | C     | 6 PR #18 PVC FS PVC |
| 9556 060500  | 500 FT   | 80.500 LB   | CHROME | C     | 6 PR #18 PVC FS PVC |
| 9556 0605000 | 5,000 FT | 800.000 LB  | CHROME | C Z   | 6 PR #18 PVC FS PVC |

## Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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