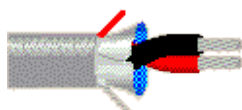


## 9312 Multi-Conductor - 300V Power-Limited Tray Cable

**Description:**

12 AWG pairs stranded (65x30) tinned copper conductors, twisted pairs, PVC insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 12  | 65x30     | TC - Tinned Copper |

**Insulation**

Insulation Material:

| Insulation Material      | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | .143       |

**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 |
|-----|-----------|--------------------|--------------------|
| 14  | 19x27     | TC - Tinned Copper |                    |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .042                      |

Outer Jacket Ripcord: Yes

**Overall Cabling**

Overall Nominal Diameter: 0.373 in.

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

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

Bulk Cable Weight: 92 lbs/1000 ft.

Max. Recommended Pulling Tension: 225 lbs.

Min. Bend Radius (Install)/Minor Axis: 3.750 in.

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

NEC/(UL) Specification: PLTC, ITC, CL3R

EU CE Mark: Yes

## 9312 Multi-Conductor - 300V Power-Limited Tray Cable

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 &amp; Cable): Yes

MIL Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: UL1685 UL Loading

CSA Flame Test: FT4

IEEE Flame Test: 1202

ICEA Flame Test: T-29-520

## Suitability

Sunlight Resistance: Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

## Surface Printing (Overall)

Surface Printing: BELDEN 9312 E34972 1PR12 SHIELDED (UL) CL3R 105C OR PLTC OR ITC  
 SUN RES OR AWM 2464 80C 300V- - - FT4 (2 FT, 7 DIGIT SEQUENTIAL  
 NUMBER) FEET

## Electrical Characteristics (Overall)

## Nom. Inductance:

Inductance (μH/ft)  
 .18

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
 25

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

Capacitance (pF/ft)  
 49

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
 1.8

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
 30

## Max. Operating Voltage - UL:

Voltage  
 300 V RMS

## Max. Recommended Current:

Current  
 17 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 9312 0601000 | 1,000 FT | 96.000 LB   | CHROME | C     | 2 #12 PVC SHLD PVC |
| 9312 060500  | 500 FT   | 49.000 LB   | CHROME | C     | 2 #12 PVC SHLD PVC |

## Notes:

C = CRATE REEL PUT-UP.

## UL Instrumentation Cable

### 300V Power-Limited Tray Cables

### Industrial Grade Sunlight- and Oil-Resistant Jackets

| Description | Part No. | No. of Pairs/Triads | Color Code | Standard Lengths |   | Standard Unit Weight |    | Jacket Thickness |    | Nominal OD |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|---------------------|------------|------------------|---|----------------------|----|------------------|----|------------|----|----------------------|---|---------------------|----|
|             |          |                     |            | Ft.              | m | Lbs.                 | kg | Inch             | mm | Inch       | mm | Lbs.                 | N | Inch                | mm |

#### 12 AWG Pairs Stranded (65x30) Tinned Copper Conductors • Twisted Pairs

##### Unshielded • PVC Insulation • Chrome PVC Jacket

|                                |      |   |    |      |       |      |      |      |      |      |      |     |     |      |        |
|--------------------------------|------|---|----|------|-------|------|------|------|------|------|------|-----|-----|------|--------|
| NEC: PLTC, ITC, CL3R           | 9412 | 1 | E2 | 500  | 152.4 | 41.5 | 18.8 | .042 | 1.07 | .370 | 9.40 | 197 | 876 | 4.25 | 107.95 |
| CEC: FT4                       |      |   |    | 1000 | 304.8 | 83.0 | 37.7 |      |      |      |      |     |     |      |        |
| IEEE 1202/383<br>ICEA T-29-520 |      |   |    |      |       |      |      |      |      |      |      |     |     |      |        |



Rip Cord

##### Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

|                                |      |   |    |      |       |      |      |      |      |      |      |     |      |      |        |
|--------------------------------|------|---|----|------|-------|------|------|------|------|------|------|-----|------|------|--------|
| NEC: PLTC, ITC, CL3R           | 9312 | 1 | E2 | 500  | 152.4 | 49.0 | 22.3 | .042 | 1.07 | .373 | 9.47 | 225 | 1001 | 4.25 | 107.95 |
| CEC: FT4                       |      |   |    | 1000 | 304.8 | 96.0 | 43.6 |      |      |      |      |     |      |      |        |
| IEEE 1202/383<br>ICEA T-29-520 |      |   |    |      |       |      |      |      |      |      |      |     |      |      |        |



Rip Cord

Drain Wire

#### 12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads

##### Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket (See chart below for other options)

|                                |       |   |    |        |      |   |   |      |      |      |       |     |      |      |       |
|--------------------------------|-------|---|----|--------|------|---|---|------|------|------|-------|-----|------|------|-------|
| NEC: PLTC, ITC, CL3R           | 3102A | 1 | E1 | Bulk † | Bulk | — | — | .053 | 1.35 | .432 | 11.00 | 315 | 1401 | 3.50 | 88.90 |
| CEC: FT4                       |       |   |    |        |      |   |   |      |      |      |       |     |      |      |       |
| IEEE 1202/383<br>ICEA T-29-520 |       |   |    |        |      |   |   |      |      |      |       |     |      |      |       |



Rip Cord

Drain Wire

E1, E2 = Refer to Technical Information section for color code.  
Alternate color coding available upon request.

†Bulk = Check length available for specific construction.

#### Conductor, Insulation and Jacket Options\*\*

| To Specify:         |                                                                       |                                       |
|---------------------|-----------------------------------------------------------------------|---------------------------------------|
| <b>1234</b>         | <b>A</b>                                                              | <b>E</b>                              |
| Start with Part No. | Add or replace letter code for desired conductor, insulation & jacket | Add for Exposed Run rating if desired |

| Bare | Tinned | Insulation/Jacket |
|------|--------|-------------------|
| A    | B      | PVC/PVC           |
| C    | D      | XLPE/PVC          |
| K    | L      | TPE/TPE           |
| Q    | R      | XLPE/CPE          |
| S    | T      | XLPE/Haloarrest®  |

\*\*For 1000 and 3000 Series cables only.