

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 & 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 & 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

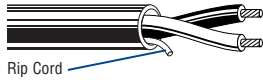
Industrial Grade Sunlight- and Oil-Resistant Jackets

| 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

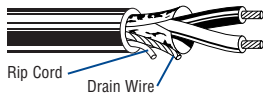
Unshielded • PVC Insulation • Chrome PVC Jacket

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



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

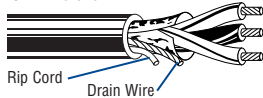
| | | | | | | | | | | | | | | | |
|--|-------------|---|----|------|-------|------|------|------|------|------|------|-----|------|------|--------|
| NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520 | 9312 | 1 | E2 | 500 | 152.4 | 49.0 | 22.3 | .042 | 1.07 | .373 | 9.47 | 225 | 1001 | 4.25 |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



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 CEC: FT4 IEEE 1202/383 ICEA T-29-520 | 3102A | 1 | E1 | Bulk † | Bulk | — | — | .053 | 1.35 | .432 | 11.00 | 315 | 1401 | 3.50 | 88.90 |
|--|--------------|---|----|--------|------|---|---|------|------|------|-------|-----|------|------|-------|



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: | | | Bare | Tinned | Insulation/Jacket |
|---------------------|---|---------------------------------------|----------|----------|-------------------|
| 1234 | A | E | A | B | PVC/PVC |
| Start with Part No. | Add or replace letter code for desired conductor, insulation & jacket | Add for Exposed Run rating if desired | | | |
| | | | C | D | XLPE/PVC |
| | | | K | L | TPE/TPE |
| | | | Q | R | XLPE/CPE |
| | | | S | T | XLPE/Haloarrest® |

**For 1000 and 3000 Series cables only.