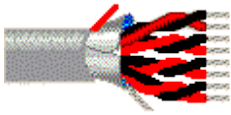


9516 Multi-Conductor - 300V Power-Limited Tray Cable



Description:

22 AWG pairs stranded (7x30) 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 | 22 | 7x30 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--|------------|
| F-R PVC - Flame Retardant Polyvinyl Chloride | .062 |

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 |
|-----|-----------|------------|--------------------|
| 22 | 7x30 | | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--|---------------------------|
| F-R PVC - Flame Retardant Polyvinyl Chloride | .053 |

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.418 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 105°C

Bulk Cable Weight: 84 lbs/1000 ft.

Max. Recommended Pulling Tension: 118 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.200 in.

9516 Multi-Conductor - 300V Power-Limited Tray Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|----------------|
| NEC/(UL) Specification: | PLTC, ITC, CMG |
| CEC/C(UL) Specification: | CMG |
| 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 |
| ICEA Flame Test: | T-29-520 |

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 9516 E34972 6PR22 SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL) |
|-------------------|--|

Electrical Characteristics (Overall)

Nom. Inductance:

| |
|--------------------|
| Inductance (µH/ft) |
| .21 |

Nom. Capacitance Conductor to Conductor:

| |
|---------------------|
| Capacitance (pF/ft) |
| 26 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|---------------------|
| Capacitance (pF/ft) |
| 45 |

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 15 |

Nominal Outer Shield DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 15 |

Max. Operating Voltage - UL:

| |
|---------|
| Voltage |
|---------|

9516 Multi-Conductor - 300V Power-Limited Tray Cable

300 V RMS

Max. Recommended Current:

Current

3.4 Amps per conductor @ 25°C

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|---------------------|
| 9516 0601000 | 1,000 FT | 89.000 LB | CHROME | C | 6 #22 PR PVC FS PVC |
| 9516 060500 | 500 FT | 45.000 LB | CHROME | C | 6 #22 PR PVC FS PVC |

Notes:

C = CRATE REEL PUT-UP.

UL Instrumentation Cable

300V Power-Limited Tray Cables

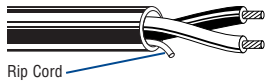
Industrial Grade Sunlight- and Oil-Resistant Jackets

| Description | Part No. | No. of Pairs | 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 |

22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs

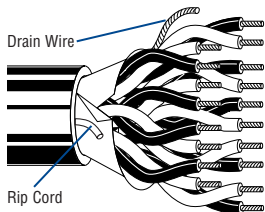
Unshielded • PVC Insulation • Chrome PVC Jacket

| | | | | | | | | | | | | | | | |
|---|-------------|---|----|-----------------|--------------------|--------------|------------|------|-----|------|------|----|----|------|-------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 9407 | 1 | E2 | U-500 U-1000 | U-152.4 U-304.8 | 10.0 19.0 | 4.3 8.2 | .037 | .94 | .198 | 5.03 | 19 | 84 | 2.00 | 50.80 |
|---|-------------|---|----|-----------------|--------------------|--------------|------------|------|-----|------|------|----|----|------|-------|



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

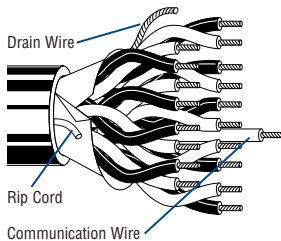
| | | | | | | | | | | | | | | | |
|---|-------------|----|----|-----------------|--------------------|----------------|---------------|------|------|------|-------|-----|------|------|--------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 9322 | 1 | E2 | U-500 U-1000 | U-152.4 U-304.8 | 11.0 22.0 | 5.0 10.0 | .037 | .94 | .201 | 5.10 | 28 | 124 | 2.00 | 50.80 |
| | 9512 | 2 | E2 | 500 1000 | 152.4 304.8 | 22.0 42.0 | 10.0 19.1 | .042 | 1.07 | .310 | 7.82 | 46 | 204 | 3.00 | 76.20 |
| | 9513 | 3 | E2 | 500 1000 | 152.4 304.8 | 26.5 51.0 | 11.6 23.2 | .042 | 1.07 | .324 | 8.23 | 63 | 280 | 3.25 | 82.55 |
| | 9514 | 4 | E2 | 500 1000 | 152.4 304.8 | 33.0 67.0 | 14.8 30.5 | .042 | 1.07 | .356 | 9.04 | 80 | 355 | 3.50 | 88.90 |
| | 9516 | 6 | E2 | 500 1000 | 152.4 304.8 | 45.0 89.0 | 20.4 40.4 | .053 | 1.35 | .418 | 10.62 | 118 | 524 | 4.25 | 107.95 |
| | 9520 | 9 | E2 | 500 1000 | 152.4 304.8 | 64.5 121.0 | 29.3 55.0 | .053 | 1.35 | .482 | 12.29 | 172 | 765 | 4.75 | 120.65 |
| | 9521 | 11 | E2 | 500 1000 | 152.4 304.8 | 73.0 147.0 | 32.7 66.4 | .053 | 1.35 | .506 | 12.85 | 200 | 889 | 5.35 | 135.89 |
| | 9524 | 15 | E2 | 500 1000 | 152.4 304.8 | 89.5 178.0 | 40.7 80.9 | .053 | 1.35 | .594 | 15.09 | 280 | 1245 | 6.00 | 152.40 |
| | 9526 | 19 | E2 | 500 1000 | 152.4 304.8 | 114.5 224.0 | 52.0 101.8 | .063 | 1.60 | .644 | 16.36 | 350 | 1557 | 6.33 | 160.78 |
| | 9527 | 27 | E2 | 500 1000 † | 152.4 304.8 | 156.5 321.0 | 71.1 145.9 | .063 | 1.60 | .763 | 19.38 | 500 | 2224 | 7.50 | 190.50 |



22 AWG Pairs Stranded (7x30) Bare Copper Conductors* • Twisted Pairs

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

| | | | | | | | | | | | | | | | |
|---|----------------|----|----|--------|------|---|---|------|------|-------|-------|-----|------|------|--------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 3000A** | 2 | E1 | Bulk†† | Bulk | — | — | .043 | 1.09 | .310 | 7.87 | 46 | 204 | 3.00 | 76.20 |
| | 3004A** | 4 | E1 | Bulk†† | Bulk | — | — | .042 | 1.07 | .357 | 9.01 | 80 | 355 | 3.50 | 88.90 |
| | 3006A** | 8 | E1 | Bulk†† | Bulk | — | — | .053 | 1.35 | .450 | 11.43 | 172 | 765 | 4.75 | 120.65 |
| | 3008A** | 12 | E1 | Bulk†† | Bulk | — | — | .053 | 1.35 | .536 | 13.61 | 210 | 934 | 5.00 | 127.00 |
| | 3010A** | 16 | E1 | Bulk†† | Bulk | — | — | .053 | 1.35 | .594 | 15.09 | 290 | 1290 | 6.00 | 152.40 |
| | 3012A** | 24 | E1 | Bulk†† | Bulk | — | — | .065 | 1.65 | .749 | 19.02 | 440 | 1957 | 7.50 | 190.50 |
| | 3014A** | 50 | E1 | Bulk†† | Bulk | — | — | .075 | 1.91 | 1.017 | 25.80 | 915 | 4070 | 9.50 | 241.30 |



PVC = Polyvinyl Chloride

*For tinned copper conductors, order with B suffix.

**For Exposed Run rated cable (3000 series only), order with E suffix, e.g. 3000AE.

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

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

Multiple pair or triad cables have each pair/triad numbered for ease of identification.