

9553 Multi-Conductor - 300V Power-Limited Tray Cable



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:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 6 | 3 | 18 | 19x30 | TC - Tinned Copper |

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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .053 |

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Cabling Lay Length & Direction:

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

Overall Nominal Diameter: 0.411 in.

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 |

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 105°C

Bulk Cable Weight: 82 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

9553 Multi-Conductor - 300V Power-Limited Tray Cable

Min. Bend Radius (Install)/Minor Axis: 4.100 in.

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 9553 E34972 3PR 18 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)

.17

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

54

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

35

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.96

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9

Max. Operating Voltage - UL:

Voltage

9553 Multi-Conductor - 300V Power-Limited Tray Cable

| |
|-------------------------|
| 300 V RMS (PLTC 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 |
|--------------|----------|-------------|--------|-------|---------------------|
| 9553 0601000 | 1,000 FT | 95.000 LB | CHROME | C | 3 PR #18 PVC SH PVC |
| 9553 060500 | 500 FT | 48.000 LB | CHROME | C | 3 PR #18 PVC SH PVC |

Notes:

C = CRATE REEL PUT-UP.

UL Instrumentation Cable

300V Power-Limited Tray Cables

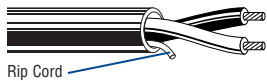
Industrial Grade Sunlight- and Oil-Resistant Jackets

| 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 |

18 AWG Pairs Stranded (19x30) Tinned Copper Conductors • Twisted Pairs

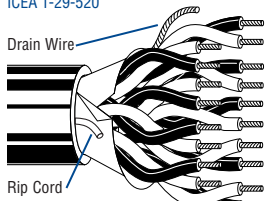
Unshielded • PVC Insulation • Chrome PVC Jacket

| | | | | | | | | | | | | | | | |
|---|-------------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 9409 | 1 | E2 | U-500 U-1000 | U-152.4 U-304.8 | 15.0 28.0 | 6.8 12.7 | .037 | .94 | .230 | 5.84 | 49 | 218 | 2.25 | 57.15 |
|---|-------------|---|----|-----------------|--------------------|--------------|-------------|------|-----|------|------|----|-----|------|-------|



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

| | | | | | | | | | | | | | | | |
|---|-------------|----|----|-----------------|--------------------|----------------|---------------|------|------|------|-------|-----|------|------|--------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 9318 | 1 | E2 | U-500 U-1000 | U-152.4 U-304.8 | 17.5 33.0 | 7.9 15.0 | .037 | .94 | .233 | 5.92 | 60 | 267 | 2.25 | 57.15 |
| | 9552 | 2 | E2 | 500 1000 | 152.4 304.8 | 35.5 69.0 | 16.1 31.4 | .042 | 1.07 | .368 | 9.34 | 65 | 289 | 3.70 | 93.98 |
| | 9553 | 3 | E2 | 500 1000 | 152.4 304.8 | 49.5 98.0 | 22.0 49.4 | .053 | 1.35 | .411 | 10.44 | 145 | 645 | 4.10 | 104.14 |
| | 9554 | 4 | E2 | 500 1000 | 152.4 304.8 | 57.0 112.0 | 25.8 50.8 | .053 | 1.35 | .447 | 11.35 | 187 | 832 | 4.50 | 114.30 |
| | 9556 | 6 | E2 | 500 1000 | 152.4 304.8 | 78.5 153.0 | 35.7 69.5 | .053 | 1.35 | .497 | 12.62 | 270 | 1201 | 5.00 | 127.00 |
| | 9559 | 9 | E2 | 500 1000 | 152.4 304.8 | 108.0 215.0 | 49.0 97.6 | .053 | 1.35 | .579 | 14.71 | 395 | 1757 | 5.80 | 147.32 |
| | 9563 | 11 | E2 | 500 1000 | 152.4 304.8 | 133.0 270.0 | 60.4 122.5 | .063 | 1.60 | .665 | 16.89 | 478 | 2126 | 6.75 | 171.45 |
| | 9565 | 15 | E2 | 500 1000 | 152.4 304.8 | 169.0 342.0 | 76.8 155.5 | .063 | 1.60 | .739 | 18.77 | 640 | 2847 | 7.50 | 190.50 |



Individually Shielded (100% Coverage) • PVC Insulation • Chrome PVC Jacket

| | | | | | | | | | | | | | | | |
|---|--------------|----|----|-------------|----------------|----------------|---------------|------|------|------|-------|------|------|------|--------|
| NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520 | 9368 | 2 | E2 | 500 1000 | 152.4 304.8 | 37.5 73.0 | 17.0 33.2 | .042 | 1.07 | .378 | 9.60 | 125 | 556 | 3.75 | 95.25 |
| | 9369 | 3 | E2 | 500 1000 | 152.4 304.8 | 55.0 109.0 | 25.0 49.5 | .053 | 1.35 | .423 | 10.74 | 220 | 979 | 4.25 | 107.95 |
| | 3029A | 4 | E1 | Bulk † | Bulk | — | — | .053 | 1.35 | .461 | 11.71 | 296 | 1317 | 4.50 | 114.30 |
| | 9388 | 4 | E2 | 500 1000 | 152.4 304.8 | 71.5 135.0 | 32.5 61.4 | .053 | 1.35 | .461 | 11.71 | 296 | 1317 | 4.60 | 116.84 |
| | 9389 | 6 | E2 | 500 1000 | 152.4 304.8 | 97.0 190.0 | 44.1 86.4 | .053 | 1.35 | .538 | 13.67 | 440 | 1957 | 5.25 | 133.35 |
| | 9390 | 9 | E2 | 500 1000 | 152.4 304.8 | 137.5 270.0 | 63.0 123.6 | .064 | 1.63 | .652 | 16.56 | 666 | 2963 | 6.50 | 165.10 |
| | 9391 | 11 | E2 | 500 1000 | 152.4 304.8 | 158.5 321.0 | 72.0 145.9 | .064 | 1.63 | .729 | 18.52 | 815 | 3626 | 7.25 | 184.15 |
| | 9392 | 15 | E2 | 500 1000 | 152.4 304.8 | 209.0 428.0 | 95.0 194.5 | .064 | 1.63 | .808 | 20.52 | 1100 | 4893 | 8.00 | 203.20 |

E1, E2 = Refer to 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.

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

| To Specify: | Bare | Tinned | Insulation/Jacket |
|-------------|----------|----------|-------------------|
| 1234 | A | B | PVC/PVC |
| 5 | C | D | XLPE/PVC |
| 6 | K | L | TPE/TPE |
| 7 | Q | R | XLPE/CPE |
| 8 | S | T | XLPE/Haloarrest® |

**For 1000 and 3000 Series cables only.