

8777 Multi-Conductor - Shielded Twisted Pair Cable

For more Information
please call

1-800-Belden1



Description:

22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pairs individually Beldfoil® Shielded (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 3 | 22 | 7x30 | TC - Tinned Copper | 0.762 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PP - Polypropylene | 1.27 |

Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|---------|-------------------------|------|-----------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum-Polyester | 100 |
| 2 | | Tape | Polyester | 100 |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cabling

Overall Nominal Diameter: 6.934 x 0.000 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists/ft. (twist/m) |
|-----------------|----------------------|
| 44.449825 | 22.475 |

Mechanical Characteristics (Overall)

| | |
|--|--------------------------|
| Operating Temperature Range: | -20°C To +80°C |
| UL Temperature Rating: | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight: | 60.719 Kg/Km |
| Max. Recommended Pulling Tension: | 351.408 N |
| Min. Bend Radius (Install)/Minor Axis: | 69.850 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| AWM Specification: | UL Style 2919 (30 V 80°C) |
| 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): | 01/01/2004 |
| 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 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

| | |
|----------------|---------------------|
| Plenum (Y/N): | No |
| Plenum Number: | 88777, 87777, 82777 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

180.455

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

49.215

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km

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Max. Operating Voltage - UL:

| Voltage |
|------------------------------|
| 30 V RMS (UL AWM Style 2919) |
| 300 V RMS (CM) |

Max. Recommended Current:

| Current |
|-----------------------------|
| 2 Amps per conductor @ 25°C |

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|----------------------|
| 8777 060U1000 | 305 MT | 18.144 KG | CHROME | | 3 SH PR #22 PP PVC |
| 8777 060U500 | 152 MT | 9.299 KG | CHROME | | 3 SHLD PR #22 PP PVC |
| 8777 060100 | 30 MT | 2.087 KG | CHROME | | 3 SHLD PR #22 PP PVC |
| 8777 0601000 | 305 MT | 19.051 KG | CHROME | C | 3 SHLD PR #22 PP PVC |
| 8777 06010000 | 3,048 MT | 204.118 KG | CHROME | C Y | 3 SHLD PR #22 PP PVC |
| 8777 0601640 | 500 MT | 30.500 KG | CHROME | C | 3 SHLD PR #22 PP PVC |
| 8777 060250 | 76 MT | 4.990 KG | CHROME | C | 3 SHLD PR #22 PP PVC |
| 8777 0603280 | 1,000 MT | 60.999 KG | CHROME | C | 3 SHLD PR #22 PP PVC |
| 8777 060500 | 152 MT | 9.525 KG | CHROME | C | 3 SHLD PR #22 PP PVC |
| 8777 0605000 | 1,524 MT | 95.255 KG | CHROME | C | 3 SHLD PR #22 PP PVC |

Notes:

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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