

## 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               |

## 8777 Multi-Conductor - Shielded Twisted Pair Cable

**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

## 8777 Multi-Conductor - Shielded Twisted Pair Cable

## 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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