

## 8777 Multi-Conductor - Shielded Twisted Pair Cable

For more Information  
please call

1-800-Belden1



### General 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

Total Number of Conductors: 6

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.279

#### Inner Shield

##### Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum-Polyester	100.000

##### 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	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.864

#### Overall Cable

Overall Nominal Diameter: 6.934 mm

#### Pair

##### Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

Storage Temperature Range: -40°C To +80°C

Operating Temperature Range: -20°C To +80°C

## 8777 Multi-Conductor - Shielded Twisted Pair Cable

<b>UL Temperature Rating:</b>	80°C (UL AWM Style 2919)
<b>Bulk Cable Weight:</b>	58.040 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	351.408 N
<b>Min. Bend Radius/Minor Axis:</b>	69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CM
<b>CEC/C(UL) Specification:</b>	CM
<b>AWM Specification:</b>	UL Style 2919 (30 V 80°C)
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1685 UL Loading
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#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
<b>Plenum Number:</b>	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

#### Max. Operating Voltage - UL:

Voltage	Description
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METRIC MEASUREMENT VERSION

## 8777 Multi-Conductor - Shielded Twisted Pair Cable

30 V RMS	AWM Style 2919
300 V RMS (CM)	CM

### Max. Recommended Current:

<b>Current</b>
2 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8777 060U1000	305 MT	18.597 KG	CHROME		3 SH PR #22 PP PVC
8777 060U500	152 MT	9.525 KG	CHROME		3 SHLD PR #22 PP PVC
8777 060100	30 MT	2.132 KG	CHROME		3 SHLD PR #22 PP PVC
8777 0601000	305 MT	19.505 KG	CHROME	C	3 SHLD PR #22 PP PVC
8777 06010000	3,048 MT	208.653 KG	CHROME	C Y	3 SHLD PR #22 PP PVC
8777 0601640	500 MT	31.244 KG	CHROME	C	3 SHLD PR #22 PP PVC
8777 060250	76 MT	5.103 KG	CHROME	C	3 SHLD PR #22 PP PVC
8777 0603280	1,000 MT	62.487 KG	CHROME	C	3 SHLD PR #22 PP PVC
8777 060500	152 MT	9.752 KG	CHROME	C	3 SHLD PR #22 PP PVC
8777 0605000	1,524 MT	97.523 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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