

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. (in.)
3	22	7x30	TC - Tinned Copper	.030

Insulation**Insulation Material:**

Insulation Material	Dia. (in.)
PP - Polypropylene	.050

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: 0.273 x 0.000 in.

Pair**Pair Color Code Chart:**

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.850

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Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	40.800 lbs/1000 ft.
Max. Recommended Pulling Tension:	79 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.750 in.

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
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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/ft)

0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

55

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.0

Ind. Pair Nominal Shield DC Resistance @ 20
Deg. C: 10.600 Ohm/1000 ft

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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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8777 060U1000	1,000 FT	40.000 LB	CHROME		3 SH PR #22 PP PVC
8777 060U500	500 FT	20.500 LB	CHROME		3 SHLD PR #22 PP PVC
8777 060100	100 FT	4.600 LB	CHROME		3 SHLD PR #22 PP PVC
8777 0601000	1,000 FT	42.000 LB	CHROME	C	3 SHLD PR #22 PP PVC
8777 06010000	10,000 FT	450.000 LB	CHROME	C Y	3 SHLD PR #22 PP PVC
8777 0601640	1,640 FT	67.240 LB	CHROME	C	3 SHLD PR #22 PP PVC
8777 060250	250 FT	11.000 LB	CHROME	C	3 SHLD PR #22 PP PVC
8777 0603280	3,280 FT	134.480 LB	CHROME	C	3 SHLD PR #22 PP PVC
8777 060500	500 FT	21.000 LB	CHROME	C	3 SHLD PR #22 PP PVC
8777 0605000	5,000 FT	210.000 LB	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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