Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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.

6

Physical Characteristics (Overall)

Conductor

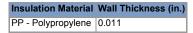
AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
3	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors:

Insulation

Insulation Material:



Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.034

Overall Cable

Overall Nominal Diameter: 0.273 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 (twist/ft)	Direction
1.750	6.900	Left Hand

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8777 Multi-Conductor - Shielded Twisted Pair Cable

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Mechanical Characteristics (Overall)	40%O T. + 100%O				
Storage Temperature Range:	-40°C To +80°C				
Operating Temperature Range:	-20°C To +80°C				
UL Temperature Rating:	80°C (UL AWM Style 2919)				
Bulk Cable Weight:	39 lbs/1000 ft.				
Max. Recommended Pulling Tension:	79 lbs.				
Min. Bend Radius/Minor Axis:	2.750 in.				
Applicable Specifications and Agency Con	npliance (Overall)				
Applicable Standards & Environmental Progra	ms				
NEC/(UL) Specification:	CM				
NEC Articles:	800				
CEC/C(UL) Specification:	CM				
AWM Specification:	UL Style 2919 (30 V 80°C)				
EU Directive 2011/65/EU (ROHS II):	Yes				
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				
CSA Flame Test:	FT1				
Suitability					
Suitability - Indoor:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				
Plenum Number:	88777, 87777, 82777				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
55

Nominal Velocity of Propagation:

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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Ind. Pair Nominal Shield DC Resistance @ 20

10.600 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

Voltage	Description		
300 V RMS	Listed type CM		
30 V RMS	AWM 2919		

Max. Recommended Current:

Description	Current	ı
10C temperature rise	2 Amps per conductor @ 25°C ambient	ı

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8777 060U1000	1,000 FT	41.000 LB	CHROME		3 SH PR #22 PP PVC
8777 060U500	500 FT	21.000 LB	CHROME		3 SHLD PR #22 PP PVC
8777 060100	100 FT	4.700 LB	CHROME		3 SHLD PR #22 PP PVC
8777 0601000	1,000 FT	43.000 LB	CHROME	С	3 SHLD PR #22 PP PVC
8777 06010000	10,000 FT	460.000 LB	CHROME	CY	3 SHLD PR #22 PP PVC
8777 0601640	1,640 FT	68.880 LB	CHROME	С	3 SHLD PR #22 PP PVC
8777 060250	250 FT	11.250 LB	CHROME	С	3 SHLD PR #22 PP PVC
8777 0603280	3,280 FT	137.760 LB	CHROME	С	3 SHLD PR #22 PP PVC
8777 060500	500 FT	21.500 LB	CHROME	С	3 SHLD PR #22 PP PVC
8777 0605000	5,000 FT	215.000 LB	CHROME	С	3 SHLD PR #22 PP PVC

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-02-2013

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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'.