Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8777 Multi-Conductor - Shielded Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

Max. Recommended Pulling Tension:

Min. Bend Radius/Minor Axis:

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) 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 (%) Tape Aluminum-Polyester | 100.000 Inner Shield Drain Wire AWG: AWG 22 7x30 Inner Shield Drain Wire Stranding: 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 Black & Red Black & White Black & Green Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m) Direction 44,450 22.639 Left Hand **Mechanical Characteristics (Overall)** -40°C To +80°C Storage Temperature Range: -20°C To +80°C **Operating Temperature Range: UL Temperature Rating:** 80°C (UL AWM Style 2919) **Bulk Cable Weight:** 58.040 Kg/Km 351.408 N

69.850 mm

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oplicable Specifications and Agency Comp	liance (Overall)					
pplicable Standards & Environmental Programs	nulles (Statut)					
NEC/(UL) Specification:	СМ					
NEC Articles:	800					
CEC/C(UL) Specification:	СМ					
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					
lame Test						
UL Flame Test:	UL1685 UL Loading					
CSA Flame Test:	FT1					
uitability						
Suitability - Indoor:	Yes					
lenum/Non-Plenum						
Plenum (Y/N):	No					
Plenum Number:	88777, 87777, 82777					

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



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 (%)

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				
300 V RMS	Listed type CM				
30 V RMS	AWM 2919				

Max. Recommended Current:

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

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

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8777 060100	30 MT	2.132 KG	CHROME		3 SHLD PR #22 PP PVC
8777 0601000	305 MT	19.505 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 06010000	3,048 MT	208.653 KG	CHROME	CY	3 SHLD PR #22 PP PVC
8777 0601640	500 MT	31.244 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 060250	76 MT	5.103 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 0603280	1,000 MT	62.487 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 060500	152 MT	9.752 KG	CHROME		3 SHLD PR #22 PP PVC
8777 0605000	1,524 MT	97.523 KG	CHROME	С	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'.

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

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