Detailed Specifications & Technical Data



8777 Multi-Conductor - Shielded Twisted Pair Cable

For more Information please call





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. (in.)
3 22 7x30 TC - Tinned Copper .030
Total Number of Conductors: 6
Insulation Insulation Material:
Insulation Material Wall Thickness (in.)
PP - Polypropylene 0.011
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 (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)Direction1.7506.900Left Hand

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ENGLISH MEASUREMENT VERSION

8777 Multi-Conductor - Shielded Twisted Pair Cable

Mechanical Characteristics (Overall)					
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 Co	mpliance (Overall)				
Applicable Standards & Environmental Programs					
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				
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:						
Impedance (Ohm)					
50						
Nom. Inducta	nce:					
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:

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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.0

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

Deg. C:

Max. Operating Voltage - UL:

Description Voltage 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	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

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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