Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





9777 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



General Description:

18 AWG stranded (19x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 20 AWG stranded TC drain wire, PVC jacket.

30

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
15	18	19x30	TC - Tinned Copper

Total Number of Conductors:

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) | PP - Polypropylene | 0.483

Inner Shield

Inner Shield Material:

Inner Shield Trade Name		Туре	Inner Shield Material	Coverage (%)
	Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

ı	Outer Jacket Material	Nom. Wall Thickness (mm)
	PVC - Polyvinyl Chloride	1.321

Overall Cable

Overall Nominal Diameter: 20.803 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown

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13	Red & Orange
14	Green & White
15	Green & Blue

-20°C To +80°C
80°C (UL AWM Style 2919)
520.870 Kg/Km
3932.209 N
209.550 mm

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 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
me Test	

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

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) 20.9984

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Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

27.232 Ohm/km

Max. Operating Voltage - UL:

Voltage	Description		
30 V RMS	UL AWM Style 2919		
300 V RMS	СМ		

Max. Recommended Current:

Current
2.7 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9777 0601000	1,000 FT	415.000 LB	CHROME	С	15 FS PR #18 PP PVC
9777 060500	500 FT	191.000 LB	CHROME	С	15 FS PR #18 PP PVC

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-07-2012

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