

## 9777 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**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.

**Physical Characteristics (Overall)****Conductor****AWG:**

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

**Insulation****Insulation Material:**

Insulation Material
PP - Polypropylene

**Inner Shield****Inner Shield Material:**

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

**Inner Shield Drain Wire AWG:**

AWG
20

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.819 in.

**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
13	Red & Orange
14	Green & White

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15	Green & Blue
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## Pair Lay Length &amp; Direction:

Lay Length (in.)
1.750

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	377.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	884 lbs.
Min. Bend Radius (Install)/Minor Axis:	8.200 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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
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## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)
50

## Nom. Inductance:

Inductance (µH/ft)
.18

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
30

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)
55

## Nominal Velocity of Propagation:

VP (%)
66

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.4

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Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 8.300 Ohm/1000 ft

## Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 2919)
300 V RMS (CM)

## Max. Recommended Current:

Current
2.7 Amps per conductor @ 25°C

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

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

## Notes:

C = CRATE REEL PUT-UP.

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