


**Detailed Specifications &
Technical Data**



8770 Non-Paired - Audio, Control and Instrumentation Cable

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

18 AWG stranded (16x30) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® aluminum-polyester shield (100% coverage), 20 AWG stranded tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Conductors	3
Total Number of Conductors	3
AWG	18
Stranding	16x30
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PE - Polyethylene
Nom. Insulation Wall Thickness	.018 in.

OVERALL CABLING:

Overall Cabling Lay Length	1.5 in.
Overall Cabling Twists/ft.	8

Overall Cabling Color Code Chart :

Number	Color	Number	Color
1	Black	3	Clear
2	Red		

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape w/Shorting Fold
Outer Shield % Coverage	100 %
Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Stranding	Stranded
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

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Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Nominal Wall Thickness	.033 in.

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.246 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +60°C
UL Temperature Rating	60°C (UL AWM Style 2093)
Bulk Cable Weight	36.2 lbs/1000 ft.
Max. Recommended Pulling Tension	74 lbs.
Min. Bend Radius (Install)	2.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2093 (300 V 60°C)

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	88770

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	69 Ohms
Nom. Inductance	.1844 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	24 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	48 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.6 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	8.5 Ohms/1000 ft
Max. Operating Voltage - UL	300 V RMS (UL AWM Style 2093)
Max. Recommended Current	5.3 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8770 0601000	3 #18 LDPE FS PVC	1000	40	CHROME	C
8770 06010000	3 #18 LDPE FS PVC	10000	430	CHROME	C Y

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8770 060500	3 #18 LDPE FS PVC	500	20.5	CHROME	C
8770 060U1000	3 #18 LDPE FS PVC	U1000	39	CHROME	
8770 060U500	3 #18 LDPE FS PVC	U500	20	CHROME	

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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