

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

8790 Multi-Conductor - Single-Pair Cable

For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (7x26) tinned copper conductors, PVC insulation, twisted pair, tinned copper spiral wrapped shield (85% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	TC - Tinned Copper	.046

Total Number of Conductors:

2

Insulation

Insulation Material:

Insulation Material
PVC - Polyvinyl Chloride

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Spiral Serve	TC - Tinned Copper	85

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

0.241 in.

Pair

Pair Color Code Chart:

Color
Red and White

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
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):	04/01/2005
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

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Flame Test

UL Flame Test: UL1685 FT4 Loading

CSA Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
41

Nom. Inductance:

Inductance (μH/ft)
0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
53

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
92

Nominal Velocity of Propagation:

VP (%)
65

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.9

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
5.2 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8790 060U1000	1,000 FT	33.000 LB	CHROME		TRANSFER REVIEW (20 TO 30)
8790 060U500	500 FT	17.500 LB	CHROME		1 PR #18 PVC SHLD PVC
8790 0601000	1,000 FT	35.000 LB	CHROME	C	1 PR #18 PVC SHLD PVC
8790 060500	500 FT	17.000 LB	CHROME	C	1 PR#18 PVC SHLD PVC
8790 0605000	5,000 FT	170.000 LB	CHROME	C	1 PR#18 PVC SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

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