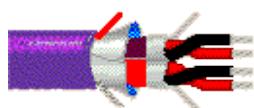


Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

7891A Multi-Conductor - Multi-Pair Snake Cable



For more Information
please call

1-800-Belden1



General Description:

26 AWG stranded tinned copper conductor, Datalene® insulation, pairs individually shielded with bonded Beldfoil® with a drain wire and have numbered and color-coded PVC jackets, overall Beldfoil® shield/drain wire + overall PVC jacket with nylon ripcord.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	26	7x34	TC - Tinned Copper	0.4826

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	1.3716

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

AWG
26

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	3.4544

Inner Jacket Color Code Chart:

Number	Color
1	Brown and Numbered 1
2	Red and Numbered 2

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	Stranded	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

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Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 8.712 mm

Pair

Pair Color Code Chart:

Number	Color
1	Red & Black
2	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

Bulk Cable Weight: 72.922 Kg/Km

Max. Recommended Pulling Tension: 106.757 N

Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

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: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Surface Printing (Overall)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
110

Nom. Inductance:

Inductance (μH/m)
0.82025

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
41.0125

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
82.025

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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Nominal Velocity of Propagation:

VP (%)
76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
122.381

Ind. Pair Nominal Shield DC Resistance @ 20
Deg. C: 83.666 Ohm/km

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.75604
.7056	3.74034
.768	3.87158
1.024	4.39654
1.4112	4.9215
1.536	5.05274
2.048	5.54489
2.8224	6.10266
3.0720	6.29952
4.096	7.02134
5.6448	7.8744
6.144	8.10407
8.192	9.02275
11.2896	10.1383
12.288	10.4336
24.576	13.7802

Notes (Overall)

Notes: Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7891A Z4B1000	305 MT	25.401 KG	VIO Z4B	C	2 #26 FHDPE FSPR PVC FS PVC
7891A Z4B500	152 MT	12.701 KG	VIO Z4B	C	2 #26 FHDPE FSPR PVC FS PVC

Notes:

C = CRATE REEL PUT-UP.

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