

7838A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable



For more Information
please call

1-800-Belden1

**General Description:**

22 AWG solid tinned copper conductors, twisted pairs, Datalene® insulation, individually shielded with 100% Beldfoil® shield, 24 AWG solid tinned copper drain wire each pair, PVC jacket.

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

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	22	Solid	TC - Tinned Copper	0.64516

Total Number of Conductors: 4

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material
Datalene®	PO w/Foam PO - Polyolefin w/Foam Polyolefin

Inner Shield**Inner Shield Material:**

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

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: Solid

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: 5.131 x 9.144 mm

Pair**Pair Color Code Chart:**

Number	Color
1	Blue & White/Blue
2	Orange & White/Orange

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 49.111 Kg/Km

Max. Recommended Pulling Tension: 137.894 N

Min. Bend Radius/Minor Axis: 50.800 mm

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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 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:

Description	Impedance (Ohm)
@ 1 MHz	100.000

Nom. Inductance:

Inductance (µH/m)
0.78744

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
47.5745

Nominal Velocity of Propagation:

VP (%)
72

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
54.7927

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.772	1.411

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
3.5 Amps per conductor @ 25°C

Differential Impedance @ 1 MHz:	105
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Notes (Overall)

Notes: Single conductors are dual insulated. The outer layer of insulation must be stripped off before attaching modular connectors. Use a stripping tool such as Cooper Tools Xcelite model 103-S, or equivalent with a mechanical stop to avoid nicking the inner insulation. RJ-45 Compatible.

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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7838A 0601000	1,000 FT	37.000 LB	CHROME	C	2 FS PR #22 PP/FPE PVC PARA
7838A 0602000	2,000 FT	74.000 LB	CHROME	C	2 FS PR #22 PP/FPE PVC PARA
7838A 0605000	5,000 FT	180.000 LB	CHROME	C	2 FS PR #22 PP/FPE PVC PARA

Notes:

C = CRATE REEL PUT-UP.

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