

7840A 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, flame retardant polyolefin insulation, overall shielded with 100% Beldfoil® shield, 22 AWG solid tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
12	22	Solid	TC - Tinned Copper	.0264

Total Number of Conductors:

24

Insulation

Insulation Material:

Insulation Material
FRPO - Flame Retardant Polyolefin

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
22	Solid	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:

0.475 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 116 lbs/1000 ft.

Max. Recommended Pulling Tension: 187.200 lbs.

Min. Bend Radius/Minor Axis: 4.750 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC(UL) Specification: MPR/CMR

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CEC/C(UL) Specification: CMR

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): 10/13/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: UL 1666 Riser

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Inductance:

Inductance (μH/ft)

0.21

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

16

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

29

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.4

Nom. Attenuation:

Attenuation (dB/1000 ft.)

4.3 @ 772 KHz

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

3.5 Amps per conductor @ 20°C

Electrical Characteristics-Premise (Overall)**Premise**

Minimum NEXT:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	NEXT (dB)
	.772			50

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7840A 0601000	1,000 FT	123.000 LB	CHROME	C	12 PRS #22 FRPP FS PVC
7840A 0602000	2,000 FT	256.000 LB	CHROME	C	12 PRS #22 FRPP FS PVC

Notes:

C = CRATE REEL PUT-UP.

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