

## 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
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1666 Riser
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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### 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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