

## 7840A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable



For more Information  
please call

1-800-Belden1

**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

**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:** 119 lbs/1000 ft.

## 7840A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable

Max. Recommended Pulling Tension:	187.200 lbs.
Min. Bend Radius (Install)/Minor Axis:	4.750 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	MPR/CMR
CEC/C(UL) Specification:	CMR
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
----------------	--------------

## 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 &amp; 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
---------

**7840A Multi-Conductor - T1/DS1 Central Office Interconnect/Cross Connect Cable**

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

**Related Documents:**

No related documents are available for this product

**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.

Revision Number: 0    Revision Date: 05-14-2007

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.