

Product: [7839A](#) 



T1/DS1 Central Office, 22 AWG 6 PR, Shielded, MPR/CMR

Product Description

22 AWG solid tinned copper conductors, 6 twisted pairs, flame retardant polyolefin insulation, overall Beldfoil® shield (100% coverage), 22 AWG solid tinned copper drain wire, PVC jacket.

Technical Specifications

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22	Solid	TC - Tinned Copper	6

Insulation

Material	Color Code	Notes
PO - Polyolefin	White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe	Flame Retardant

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.38 in	Yes

Electrical Characteristics

Electricals

Nom. Characteristic Impedance
100 Ohm

Delay

Nom. Velocity of Prop.
66%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Max./Min. Input Impedance (unFitted)
0.772	0.6	50	
1			100 +/- 15 Ohms

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage

75°C	-20°C To +75°C	-20°C To +75°C	-20°C To +75°C
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Bend Radius

Stationary Min.	Installation Min.
3.25 in (82.6 mm)	3.80 in (96.5 mm)

Max. Pull Tension:	93.6 lbs (42.5 kg)
Bulk Cable Weight:	70 lbs/1000ft (100 kg/km)

Standards and Compliance

Environmental Suitability:	Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Riser
NEC / UL Compliance:	MPR, CMR
CEC / C(UL) Compliance:	CMR
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.309 Revision Date: 02-20-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7839A 0601000	Chrome	Reel	1,000 ft	612825190158	C

Footnote:	C - CRATE REEL PUT-UP.
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