



Product: [6408MD](#) 

1 PR 22AWG SHLD + 8 Cond 20AWG UNSHLD CMP

Product Description

1 Pair 22AWG Shielded Pair (OSDP) + 8 Conductor 20AWG Unshielded CMP

Technical Specifications

Product Overview

Suitable Applications:	Server Cabinet Lock - Data Centers OSDP
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Data Pair(s)	2 (1 Pair)	22 AWG	7x30	TC - Tinned Copper	1 Pair 120 Ohm - OSDP Reader
Power	8	20 AWG	7x28	BC - Bare Copper	8 Conductors For Molex: Power, Lock Power, Tamper

Insulation

Element	Material	Nom. Thickness	Color Code
Data Pair(s)	FEP - Fluorinated Ethylene Propylene	.025 in (0.64 mm)	White/Green Data Pair
Power	PVC - Polyvinyl Chloride	.009 in (0.23 mm)	Black, Red, Blue, Yellow, Violet, Pink, Gray, Tan

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	Drain Inside the Foil
Power	No Shield	Unshielded			

Inner Jacket

Color
Yellow

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	.015 in (0.38 mm)	.290 in (7.37 mm)	Yes

Overall Cable Diameter (Nominal):	.290 in (7.37 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance
Data Pair(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	11.2 pF/ft (36.7 pF/m)	21.8 pF/ft (71.5 pF/m)	120 Ohm
Power	10.2 Ohm/1000ft (33.5 Ohm/km)			

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
2.9 in (74 mm)	2.5 in (64 mm)

Max. Pull Tension:	104 lb/f
Bulk Cable Weight:	42 lbs (19 kg)

Standards and Compliance

Environmental Suitability:	Indoor - Plenum
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
TIA/EIA Compliance:	TIA/EIA RS485
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg
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History

Update and Revision:	Revision Number: 0.5 Revision Date: 01-14-2026
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