



Product: [6281MD](#)

1Pr 22AWG Shielded Data + 16/2 Power OSDP CMP

Product Description

OSDP Reader Cable, 1 Pair 22 AWG stranded (7x30) tinned copper (data) with foam FEP insulation, Beldfoil® shield w/ drain, 2 Conductor 16 AWG stranded (19x29) Bare copper conductor (power) with Flamarrest® insulation, Plenum, Flamarrest®

Technical Specifications

Product Overview

Suitable Applications:	OSDP Readers, RS-485, Serial Data, Access Control
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Construction Details

Conductor

Element	No. of Conductors	No. of Pairs	Size	Stranding	Material	Notes
Data Pair(s)		1	22 AWG	7x30	TC - Tinned Copper	Twisted Pair Configuration
Power Pair(s)	2		16 AWG	19x29	BC - Bare Copper	

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.031 in (0.79 mm)	0.090 in (2.3 mm)	White/Blue Stripe & Blue/White Stripe
Power Pair(s)	PVC - Polyvinyl Chloride	0.012 in (0.30 mm)	0.081 in (2.1 mm)	Black & Red

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Power Pair(s)		Unshielded		

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
Flamarrest®	0.020 in (0.51 mm)	0.246 in (6.25 mm)
Overall Cable Diameter (Nominal):		0.246 in (6.25 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Nom. Velocity of Prop.
Data Pair(s)	14.8 Ohm/1000ft (48.6 Ohm/km)	13 pF/ft (43 pF/m)	24 pF/ft (79 pF/m)	120 Ohm	78%
Power Pair(s)	4.2 Ohm/1000ft (14 Ohm/km)				

Voltage

UL Voltage Rating
(300V (CMP))

Mechanical Characteristics

Temperature

UL Temperature	Operating
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60°C	-20°C to +60°C
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Bend Radius

Stationary Min.
2.44 in (62.0 mm)

Max. Pull Tension:	31 lbs (14 kg)
Bulk Cable Weight:	21 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP FT6
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)
Plenum Number:	6281MD

History

Update and Revision:	Revision Number: 0.141 Revision Date: 04-01-2024
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