



Product: [6381MD](#)

1Pr 24AWG Shielded Data + 18/2 Power OSDP CMP

Product Description

OSDP Reader Cable, 1 Pair 24 AWG stranded (7x32) tinned copper (data) with foam FEP insulation, Beldfoil® shield w/ drain, 2 Conductor 18 AWG stranded (7x26) Bare copper conductor (power) 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	24 AWG	7x32	TC - Tinned Copper	Twisted Pair Configuration
Power Pair(s)	2		18 AWG	7x26	BC - Bare Copper	

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.025 in (0.64 mm)	0.074 in (1.9 mm)	White/Blue Stripe & Blue/White Stripe
Power Pair(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.065 in (1.7 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)	0.215 in (5.46 mm)

Overall Cable Diameter (Nominal):	0.215 in (5.46 mm)
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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)	24 Ohm/1000ft	13 pF/ft (43 pF/m)	24 pF/ft (79 pF/m)	120 Ohm	76%
Power Pair(s)	6.2 Ohm/1000ft (20 Ohm/km)				

Voltage

UL Voltage Rating
(300 V)

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.
2.15 in (54.6 mm)

Max. Pull Tension:	51 lbs (23 kg)
Bulk Cable Weight:	31 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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:	6381MD

History

Update and Revision:	Revision Number: 0.138 Revision Date: 06-19-2024
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