



Product: [5381M1](#)

1Pr 22 AWG Shielded Data + 18/2 Power OSDP Indoor/Outdoor CM

### Product Description

OSDP Reader Cable, 1 Pair 22 AWG stranded (7x30) tinned copper (data) with foam Polyethylene insulation, Beldfoil® shield w/ drain, 2 Conductor 18 AWG stranded (7x26) Bare copper conductor (power) with Waterblocking Tape, Overall UV Resistant PVC Jacket. Indoor/Outdoor CM Rated

### 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		18 AWG	7x26	BC - Bare Copper	Power Conductors

##### Insulation

Element	Material	Nom. Thickness	Color Code
Data Pair(s)	PE - Polyethylene (Foam)	.029 in (0.74 mm)	White, Blue
Power Pair(s)	PVC - Polyvinyl Chloride	.009 in (0.23 mm)	Black, Red

##### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
Power Pair(s)	No Shield	Unshielded		

Table Notes:	Overall Waterblocking Tape
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##### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord	Notes
Waterblocking Tape	PVC - Polyvinyl Chloride	.032 in (0.81 mm)	.275 in (6.99 mm)	Yes	100% WaterBlocking Tape

Table Notes:	Waterblocking Tape 100% Coverage
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Overall Cable Diameter (Nominal):	.275 in (6.99 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 Impedence	Nom. Velocity of Prop.
Data Pair(s)	16.5 Ohm/1000ft (54.1 Ohm/km)	13 pF/ft (43 pF/m)	24 pF/ft (79 pF/m)	120 Ohm	76%
Power Pair(s)	6.4 Ohm/1000ft (21 Ohm/km)				

##### Voltage

<b>UL Voltage Rating</b>
300 V (300 V)

#### Mechanical Characteristics

## Temperature

UL Temperature	Operating
75°C	-20°C to +75°C

## Bend Radius

Stationary Min.
2.3 in (58 mm)

Max. Pull Tension:	43 lbs (20 kg)
Bulk Cable Weight:	28 lbs/1000ft (42 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Outdoor, Sunlight Resistance, UV Resistance, Aerial
Flammability / Reaction to Fire:	UL 1685
NEC / UL Compliance:	Article 800, CL2, CM, PLTC
CEC / C(UL) Compliance:	CM, PLTC
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)
Other Standard Compliance(s):	Sunlight resistant in Black and White.
Plenum Number:	6381MD

## History

Update and Revision:	Revision Number: 0.27 Revision Date: 04-01-2024
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