



Product: <u>4381MD</u> ☑

Life Cycle Status: Capability

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

Product Description

OSDP Reader Cable, 1 Pair 24 AWG stranded (7x32) tinned copper (data) with foamPE insulation, Beldfoil® shield w/ drain, 2 Conductor 18 AWG stranded (7x26) Bare copper conductor (power) LSZH

Technical Specifications

Product Overview

Suitable OSDP Readers, RS-485, Serial Data, Access Control

Construction Details

Conductor

Element	Size	Stranding	Material	Notes
24 AWG	24	7x30	TC - Tinned Copper	Twisted Pair Configuration
18 AWG	18	7x26	BC - Bare Copper	

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
18 AWG	PE - Polyethylene (Foam)	1.87 mm (0.0736 in)	White/Blue Stripe & Blue/White Stripe
24 AWG	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.7 mm (0.067 in)	Black & Red

Inner Shield

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

Outer Shield

Material No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	6.5 mm (0.26 in)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Data Pair(s)	79 Ohm/km (24 Ohm/1000ft)	43 pF/m (13 pF/ft)	24 pF/ft (79 pF/m)	79 pF/m (24 pF/ft)	120 Ohm	76%	3.8 Amps per Conductor at 25°C (22 AWG)
Power Pair(s)	22.6 Ohm/km (6.89 Ohm/1000ft)						

Mechanical Characteristics

Temperature

Operating

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s1,d2,a1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
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Product Notes

This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 6km f order. This product will have Orange as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The production lead time for the first order will be similar to the production lead time of 1502ELW plus extra 6-7 weeks. Please liaise with your Belden representative for confirmat	ne estimated
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History

Update and Revision:	Revision Number: 0.8 Revision Date: 06-27-2024
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