



Product: [4381MDV](#) 

1Pr 24AWG Shielded Data + 18/2 Power OSDP, B2ca

Product Description

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

Technical Specifications

Product Overview

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

Construction Details

Conductor

Element	Size	Stranding	Material	Notes
Data Pair(s)	24 AWG	7x32	TC - Tinned Copper	Twisted Pair Configuration
Power Pair(s)	18 AWG	7x26	BC - Bare Copper	

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Data Pair(s)	PE - Polyethylene (Foam)	1.87 mm (0.0736 in)	White/Blue Stripe & Blue/White Stripe
Power Pair(s)	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)	Tape	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 B2ca, Indoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: B2ca-s1,d1,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

History

Update and Revision:	Revision Number: 0.8 Revision Date: 10-07-2025
----------------------	--

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.