



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
------------------------	---

**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	0.012 in (0.30 mm)	0.069 in (1.8 mm)	Black & Red

**Inner Shield**

Element	Shield Type	Material	Coverage	Drainwire Type
Data Pair(s)	Tape	Aluminum	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)
-----------------------------------	--------------------

**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 Ohm/1000ft (20 Ohm/km)				

**Voltage**

UL Voltage Rating
(300 V)

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
----------------	-----------

60°C	-20°C to +60°C
------	----------------

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: 0.112 Revision Date: 03-27-2024
----------------------	--

© 2024 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.