



Product: [638JMDS](#) 

OSDP Access Control Cable, CMP, 14C (OSDP Reader 1Pr-22 Shielded, #18-2, #18-4, #22-4, #16-2), , Banana Peel®

Product Description

OSDP Access Control Cable, CMP, 14C (OSDP Reader 1Pr-22 Shielded, #18-2, #18-4, #22-4, #16-2), , Banana Peel®

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls, OSDP Reader
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

Element Description	Element	No. of Elements	Size	Stranding	Material	Notes
Card Reader	Data Pair	1 Pair	22 AWG	7x30	TC - Tinned Copper	Data Pair - 1 Pr. 22AWG Shielded, RS-485 - Reader
	Power	2	18 AWG	7x26	BC - Bare Copper	Power Pair - 2C 18AWG Unshielded
Door Contact	Conductor(s)	4	22 AWG	7x30	BC - Bare Copper	
REX/Spare	Conductor(s)	4	18 AWG	7x26	BC - Bare Copper	
Lock Power	Conductor(s)	2	16 AWG	19x27	BC - Bare Copper	

Insulation

Element Description	Element	Material	Nom. Thickness	Color Code
Card Reader	Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	.025 in (0.64 mm)	Blue, White
	Power	PVC - Polyvinyl Chloride	.012 in (0.30 mm)	Black, Red
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	.008 in (0.20 mm)	Black, Red, White, Green
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	.008 in (0.20 mm)	Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	.010 in (0.25 mm)	Black, Red

Inner Shield

Element Description	Element	Shield Type	Material	Coverage	Drainwire Type
Card Reader	Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
	Power	No Shield			
Door Contact	Conductor(s)	No Shield			
REX/Spare	Conductor(s)	No Shield			
Lock Power	Conductor(s)	No Shield			

Inner Jacket

Element	Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
Card Reader	PVC - Polyvinyl Chloride	.020 in (0.51 mm)	.221 in (5.61 mm)	Yes	White
Door Contact	PVC - Polyvinyl Chloride	.015 in (0.38 mm)	.139 in (3.53 mm)	Yes	White/Brown Stripe
REX/Spare	PVC - Polyvinyl Chloride	.015 in (0.38 mm)	.189 in (4.80 mm)	Yes	White/Green Stripe
Lock/Power	PVC - Polyvinyl Chloride	.015 in (0.38 mm)	.176 in (4.47 mm)	Yes	White/Yellow Stripe

Outer Jacket

Material	Nom. Diameter
Banana Peel (No Overall Jacket)	.468 in (11.9 mm)

Outer Jacket1 Table Notes:	Banana Peel
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Overall Cable Diameter (Nominal):	.468 in (11.9 mm)
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Electrical Characteristics

Electricals

Element Description	Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence
Card Reader	Data Pair(s)	16.8 Ohm/1000ft (55.1 Ohm/km)	13 pF/ft (43 pF/m)	24 pF/ft (79 pF/m)	120 Ohm
Card Reader	Power	6.2 Ohm/1000ft (20 Ohm/km)			
Door Contact	Conductor(s)	17 Ohm/1000ft (56 Ohm/km)			
REX/Spare	Conductor(s)	6.2 Ohm/1000ft (20 Ohm/km)			
Lock Power	Conductor(s)	4.2 Ohm/1000ft			

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Installation Min.
4.6 in (120 mm)

Max. Pull Tension:	206 lbs (93.4 kg)
Bulk Cable Weight:	108 lbs (49.0 kg)

Standards and Compliance

Environmental Suitability:	Indoor - PlenumIndoor, Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
TIA/EIA Compliance:	RS485
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)

Product Notes

Notes:	Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation
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History

Update and Revision:	Revision Number: 0.7 Revision Date: 01-14-2026
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