



Belden OSDP Cables

The Future of Access Control



PRODUCT BULLETIN

Belden's offering of OSDP Access Control Cables provide high levels of security, flexibility, convenience, and performance to connect security and access control systems. Remain TIA-485 compliant at maximum supported baud rates and cable distances.

- Enhanced security to protect data
- Simple and quick implementation
- Low maintenance and added functionality

New EN/IEC LSZH Cca rated cables feature enhanced reaction to fire and are an economical solution to low noise environments.

Key Features

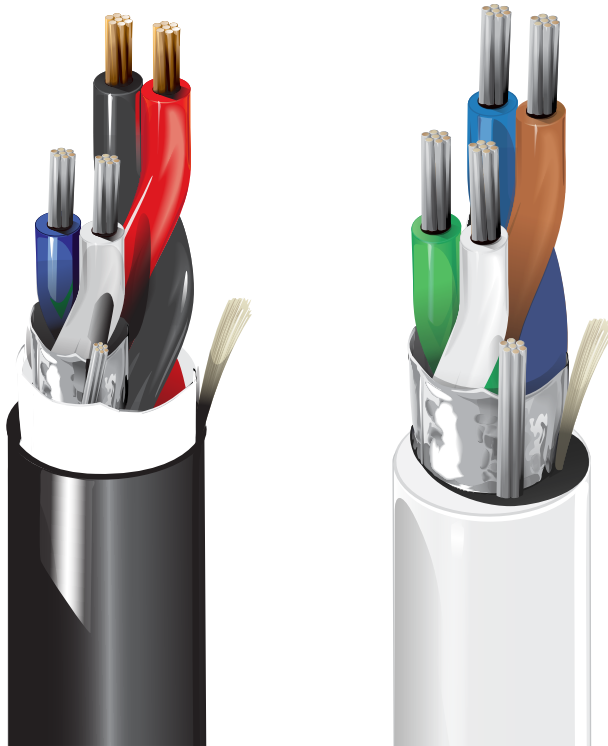
- Higher security levels against hacks and other threats
- Two-way communication
- Overall smaller cable with fewer conductors
- Advanced user interfaces
- Communication between different manufacturers
- Specification extendable to IP environments
- Enhanced flame performance with either UL plenum and up to Cca CPR rating as per EN50575

UL Listed Plenum

Part No	No. of Cond	CondType	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance and Impedance	Jacket Colors
6640FD	1 Pair	24AWG (7x32) TC 26 Ohms/1000ft	Foam FEP .025"	Overall 100% Foil Shield	Flex Plenum .015"	.186"	CMP	10.8 pf/ft 120 Ohms	Orange
6540FD	1 Pair	22AWG (7x30) TC 16.3 Ohms/1000ft	Foam FEP .023"	Overall 100% Foil Shield	Flex Plenum .015"	.210"	CMP	13.5 pf/ft 120 Ohms	White, Black
6541FD	2 Pair	22 AWG (7x30) TC 16.3 Ohm/1000ft	Foam FEP .023"	Overall 100% Foil Shield	Flex Plenum .016"	.292"	CMP	13.5 pf/ft 120 Ohms	White, Black
6641FD	2 Pair	24AWG (7x32) TC 26 Ohms/1000ft	Foam FEP .021"	Overall 100% Foil Shield	Flex Plenum .016"	.252"	CMP	13.5 pf/ft 120 Ohms	Black, Orange
6381MD	1 Pair	24AWG (7x32) TC 26 Ohms/1000ft	Foam FEP .025"	Overall 100% Foil Shield	Flex Plenum .020"	.215"	CMP	13.5 pf/ft 120 Ohms	Black, Orange and Gray
	2 Cond	18AWG (7x26) BC 6.2 Ohms/1000ft	PVC .010"	None					
6281MD	1 Pair	22 AWG (7x30) TC 16.3 Ohm/1000ft	Foam FEP .030"	Overall 100% Foil Shield	Flex Plenum .020"	.246"	CMP	13.5 pf/ft 120 Ohms	Black
	2 Cond	16AWG (19x29) BC 4.2 Ohms/1000ft	PVC .010"	None					
5381M1	1 Pair	22 AWG (7x30) TC 16.3 Ohm/1000ft	Foam PE Polyethylene .025"	Overall 100% Foil Shield	Waterblocking Tape UV Resistant PVC .032"	.272"	Indoor/ Outdoor CM	13.5 pf/ft 120 Ohms	Black
	2 Cond	18AWG (7x26) BC 6.2 Ohms/1000ft	PVC .010"	None					
6386MD	2 Pair	22 AWG (7x30) TC 16.3 Ohm/1000ft	Foam PE Polyethylene .023"	Overall 100% Foil Shield	Flex Plenum Black .020"	.541"	CMP	13.5 pf/ft 120 Ohms	2 Ind. Jacket cables Banana Peel
	4 Cond	18AWG (7x26) BC 6.2 Ohms/1000ft	PVC .008"	None					

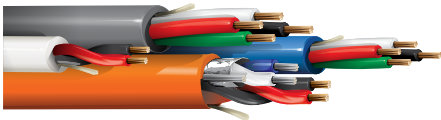
Color Code

Part No	Data Pair	Power
6381MD 6281MD 5381MD	Blue, White	Black, Red
6640FD	Blue, White	
6541FD 6641FD	White, Green Brown, Blue	
6386MD	White, Green Brown, Blue	Black, Red, Gray, Blue



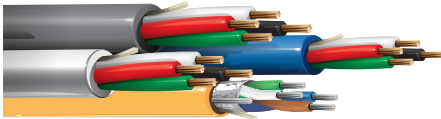
OSDP Composite Cable

OSDP Reader w/Power



Part No.	Eement Type.	No of Cond/pairs	Cond Type	Insulation Type and Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
658HMS	OSDP Reader	1 Pair	24AWG (7x32) TC	Foam PE .029"	Overall 100% Foil Shield	Flex Plenum .020"	.215"	CMP	12.8pf/ft 120 Ohms	Orange
		2 Cond	18AWG (7x26) BC	PVC .010"	None					
	Door Contact	2 Cond	22AWG (7x30) BC	PVC .008"	None	UV Resistant PVC	.116"		34pf/ft	White
	Lock power	4 Cond	18AWG (7x26) BC	PVC .008"	None	UV Resistant PVC	.182"		27pf/ft	Gray
	REX/ Spare	4 Cond	22AWG (7x30) BC	PVC .008"	None	UV Resistant PVC	.136"		34pf/ft	Blue

Overall Jacket:	None - Banana Peel
Overall Cable O.D.	.455"



Dual OSDP Reader

Part No.	Eement Type.	No of Cond/pairs	Cond Type	Insulation Type and Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
668AMD	OSDP Reader	2 Pair	24AWG (7x32) TC	Foam FEP .021"	Overall 100% Foil Shield	Flex Plenum .018"	.252"	CMP	13pf/ft 120 Ohms	Orange
	Door Contact	4 Cond	22AWG (7x30) BC	Plenum PVC .008"	None	Flex Plenum	.141"			White
	Lock power	4 Cond	18AWG (7x26) BC	Plenum PVC .010"	None	Flex Plenum	.182"			Gray
	REX/ Spare	4 Cond	18AWG (7x26) BC	Plenum PVC .010"	None	Flex Plenum	.182"			Blue

Overall Jacket:	None - Banana Peel
Overall Cable O.D.	.472"

OSDP Reader w/Power Indoor/Outdoor



Part No.	Eement Type.	No of Cond/pairs	Cond Type	Insulation Type and Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
538HMD1	OSDP Reader	1 Pair	22AWG (7x30) TC	Foam PE .029"	Overall 100% Foil Shield	UV Resistant PVC .032"	.272"	Indoor/ Outdoor CM	13.5 pF/ft 120 Oms	Orange
		2 Cond	18AWG (7x26) BC	PVC .011"	Waterblock Tape					
	Door Contact	2 Cond	22AWG (7x30) BC	PVC .009"	Waterblock Tape	UV Resistant PVC	.168"			White
	Lock power	4 Cond	18AWG (7x26) BC	PVC .010"	Waterblock Tape	UV Resistant PVC	.232"			Gray
	REX/ Spare	4 Cond	22AWG (7x30) BC	PVC .010"	Waterblock Tape	UV Resistant PVC	.187"			Blue

Overall Jacket:	UV Resistant PVC
Overall Cable O.D.	.566"

EN/IEC LSZH rated Cables

Part No	No. of Cond	Cond Type	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	CPR Euroclass	Nom. Capacitance and Impedance	Jacket Colors
4640FDW	1 Pair	24 AWG	Foam PE 0.4mm	Overall 100% Foil Shield	LSZH 0.9mm	5.10 mm	Cca sldla1	42 pF/m 120 Ohms	Orange
4540FDW	1 Pair	22 AWG	Foam PE 0.75mm	Overall 100% Foil Shield	LSZH 0.9mm	6.6 mm	Cca sldla1	36.1 pF/m 120 Ohms	Orange
4641FDW	2 Pairs	24 AWG	Foam PE 0.4mm	Overall 100% Foil Shield	LSZH 0.9mm	6.80 mm	Cca sldla1	42 pF/m 120 Ohms	Orange
4541FDW	2 Pairs	22 AWG	Foam PE 0.75mm	Overall 100% Foil Shield	LSZH 0.9mm	7.8 mm	Cca sldla1	36.1 pF/m 120 Ohms	Orange

