

OSDP - Open Supervised Device Protocol

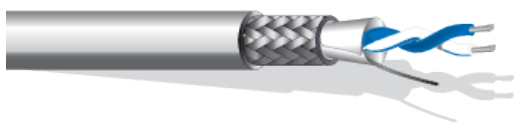
The Future of Access Control



Open Supervised Device Protocol (OSDP) is the future of Access Control. OSDP improves interoperability and increases security over standard Weigand systems.

The OSDP standard offers:

- > Higher security levels against hacks and other threats
- > Advanced Functionality
 - Two-way communication
 - Fewer conductors and a smaller cable
 - Advanced user interfaces
- > Ease of use
- > More interoperability
 - Communication between different manufacturers
 - Specification extendable to IP environments



RS-485 Communication - Non-Plenum

Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches	Inches			
D4851	1	24 AWG (7 x 32) TC 26 Ω/Mft	PE .020	Overall 100% Foil + 90% Braid	PVC .032	.275	CM	12.8 pf/ft 120 Ω	Gray
D2401	1	24 AWG (7 x 32) TC 26 Ω/Mft	Polyolefin .013	Overall 100% Foil	PVC .030	.160	CM	14.5 pf/ft 100 Ω	Gray



RS-485 Communication - Plenum

Catalog No.	No. of Pair	Cond. Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches	Inches			
1PR24P	1	24 AWG (7 x 32) TC 26 Ω/Mft	Foam FEP .025	Overall 100% Foil	Flex Plenum .015	.156	CMP	10.8 pf/ft 120 Ω	Orange
1PR22P	1	22 AWG (7x30) TC, 17 Ω/1000 ft	Foam FEP .023	Overall 100% Foil	Overall Flex Plenum PVC .020	.177	CMP	11.2 pf/ft 120 Ω	Orange
D254851	1	24 AWG (7 x 32) TC 26 Ω/Mft	Foam FEP .023	Overall 100% Foil + 90% Braid	Flex Plenum .017	.202	CMP	12.8 pf/ft 120 Ω	Gray
D252401	1	24 AWG (7 x 32) TC 26 Ω/Mft	FEP .013	Overall 100% Foil	Flex Plenum .015	.115	CMP	14.5 pf/ft 100 Ω	Gray
D25222P	2	22 AWG (7 x 30) TC 17 Ω/Mft	Foam FEP .0245	Individually Shielded Pair	Flex Plenum .018	.277	CMP	13.5 pf/ft 120 Ω	White

OSDP - Open Supervised Device Protocol



RS-485 Communication & Power

Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches				
1PR2418P	1	24 AWG (7 x 32) TC	Foam FEP .025	Overall 100% Foil	Overall Flex Plenum PVC .020	.244	CMP	12.8pf/ft 120 Ω	Black White/ Orange Strip
	2	18 AWG (7x26) BC	Plenum PVC .010	None				23 pf/ft	
1PR2216P	1	22 AWG (7x30) TC	Foam FEP .030	Overall 100% Foil	Overall Flex Plenum PVC .020	.280	CMP	13.5 pf/ft 120 Ω	Black
	2	16 AWG (19x29) BC	Plenum PVC .008	None				23 pf/ft	

Outdoor RS-485 Water Block

Catalog No.	No. of Pair	Conductor Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. OD	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
DRS485DB	2	22 AWG (7x30) TC, 17 Ω /1000 ft	Foam EP .029	100% Aluminum Foil + 65% Tinned Braid + Water-blocking Tape	CPE - Chlorinated Polyethylene	.339	CM Indoor - Outdoor Direct Burial	11.2 pf/ft 120 Ω	Black

Insulation Color Code

Catalog No.	Color Code
D4851 D254851 1PR24P	1 Pair: Blue/White, White/Blue
D2401 D252401	1 Pair: Black, Red
1PR2418P 1PR2216P	Data Pair: Blue/White, White/Blue Power: Black, Red
D25222P	1: White/Green 2: Orange/Brown
1PR22P	1: Black, 2: White