

# OSDP - Open Supervised Device Protocol

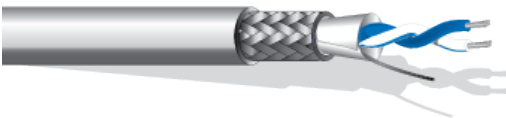
The Future of Access Control



**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
- > SIA - Security Industry Association Standard



## RS-485 Communication - Non-Plenum

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



## RS-485 Communication - Plenum

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

# OSDP - Open Supervised Device Protocol

## RS-485 Communication with Power



### RS-485 Communication & Power

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

### Outdoor RS-485 Water Block

Catalog No.	No. of Conductors	Cond. Type & Nom. DCR	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D	NEC Type	Nom. Capacitance & Impedance	Jacket Colors
			Inches		Inches				
D4851DB	2 Cond	22AWG (7x30)TC, 17 Ohms/1000ft	Foam EP .029	100% Aluminum Foil + 65% Tinned Braid + Waterblocking Tape	CPE - Chlorinated Polyethylene	.339	CM Indoor - Oudoot Direct Burial	11.2pf/ft 120Ω	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, Whire/Blue Power: Black, Red
D25222P	1: White/Green 2: Orange/Brown
1PR22P	1: Black, 2: White