



# Product: <u>4341FDW</u> ☑

Life Cycle Status: Capability

OSDP RS485, 2PR #18 Str TC, PO ins, OS, LSNH Jkt, Cca

# **Product Description**

OSDP RS-485, 2 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + drainwire shielding, LSZH / FRNC jacket ,Cca

# **Technical Specifications**

# Product Overview

Suitable Application	ns:	strumentation a	and computer	r cable. For OSDP El	A RS-485 transmission	s applications		
Construe	Construction Details							
Conductor								
Element I	No. of Elem	nts Size	Stranding	Material				
Pair(s)	2	18 AWG	7x26	TC - Tinned Copper				
nsulation	isulation							
Element	Mat	erial	Nom. Thickn	ness Nom. Insulati	on Diameter	Color Code		
Pair(s)	PE - Polyeth	rlene (Foam) C	0.90 mm (0.03	35 in) 3.0 mm (0.12 i	1) White &	Orange, Orange & White, W	hite & Blue, Blue & White	
Outer Shiel	uter Shield							
Shield Typ	ре	<b>Aaterial</b>	Coverage	Drainwire Type				
Таре	Bi-Lamir	ate (Alum+Poly	) 100%	22 AWG (7x30) TC				
luter Jacket								
	N	aterial		Nom. Thickness	Nom. Diameter			
LSZH - Lov	LSZH - Low Smoke Zero Halogen (Flame Retardant) 1.0 mm (0.039 in) 11.6 mm (0.457 in)							
Overall Cal	Overall Cable 11.6 mm (0.457 in)							

# **Electrical Characteristics**

## Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	21 Ohm/km (6.4 Ohm/1000ft)	36 pF/m (11 pF/ft)	65 pF/m	120 Ohm	78%	4.0 Amps per Conductor

#### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.30 dB/100m (0.396 dB/100ft)

#### Voltage

Voltage Rating 300 V

### Mechanical Characteristics

Temperature

#### Bend Radius

Stationary Min. In	stallation Min.
58 mm (2.3 in) 11	16 mm (4.57 in)
Max. Pull Tension:	700 N (160 lbf)
Bulk Cable Weight:	118 kg/km (79.3 lbs/1000ft)

# **Standards and Compliance**

Environmental Suitability:	Indoor - Euroclass Cca, Indoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1,d1,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

#### **Product Notes**

Notes: This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 3km for the first order. This product will have Orange as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 4541FDW plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.

#### History

Update and Revision Number: 0.19 Revision Date: 05-07-2025

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