

Product: <u>4343FDZ</u> I

Life Cycle Status: Capability

OSDP RS485, 4 Pr #18 Str TC, PO Ins, OS, LSZH Jkt, Eca

Product Description

OSDP RS-485, 4 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + drainwire shielding, LSZH / FRNC jacket ,Eca

Technical Specifications

Product Overview

Suitable Applications: Instrumentation and computer cable. For OSDP EIA RS-485 transmissions applications						
Construction Details						
Conducto	or					
Element	No. of Elements	Size	Stranding	Material		
Pair(s)	4	18 AWG	7x26	TC - Tinned Copper		
			1			
Insulation	1					
Element	Material		Nom. Thickn	ess Nom. Insulati	on Diameter	r Color Code
Pair(s)	PE - Polyethylene	e (Foam)	0.90 mm (0.03	35 in) 3.0 mm (0.12 i	n)	White/Blue & Blue/White, White/Orange & Orange/White, White/Green & Green/White, White/Brown & Brown/White
0	-14					
Outer Shi						
Shield Ty			Coverage			
Таре	Bi-Laminate ((Alum+Pol	y) 100%	22 AWG (7x30) TC		
Outer Jac	kot					
uter Jac	Kel					

MaterialNom. ThicknessNom. DiameterLSZH - Low Smoke Zero Halogen (Flame Retardant)1.1 mm (0.043 in)14.5 mm (0.571 in)Overall Cable
Diameter (Nominal):14.5 mm (0.571 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%	3.5 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

Operating Installation Storage

Bend Radius

Stationary Min.Installation Min.73 mm (2.9 in)145 mm (5.71 in)			
Max. Pull Tension:	1400 N (310 lbf)		
Bulk Cable Weight:	165 kg/km (111 lbs/1000ft)		

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
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). The minimum business quantity to offer is 3km for the first order. This product will have Orange as standard color and 305mt 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. Please liaise with your Belden representative for confirmation.

History

Update and Revision: Revision Number: 0.20 Revision Date: 05-07-2025

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