



Product: <u>4341FDZ</u> ☑

Life Cycle Status: Capability

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

# **Product Description**

OSDP RS-485, 2 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**

### Conductor

Elemen	No. of Elements	Size	Stranding	Material
Pair(s)	2	18 AWG	7x26	TC - Tinned Copper

### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.90 mm (0.035 in)	3.0 mm (0.12 in)	White & Orange, Orange & White, White & Blue, Blue & White

## Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

### **Outer Jacket**

	Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smo	oke Zero Halogen (Flame Retardant)	1.0 mm (0.039 in)	11.6 mm (0.457 in)
Overall Cable Diameter (Nomin	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



### **Mechanical Characteristics**

### Temperature

Operating Installation Storage

-30°C To +70°C | -15°C To +70°C | -30°C To +70°C

#### **Bend Radius**

# **Standards and Compliance**

Stationary Min. Installation Min.

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**

Notae	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
Notes:	time of 4541FDW. Please liaise with your Belden representative for confirmation.

# History

	D. C. H. J. GARD. C. D. GERTON
Update and Revision:	Revision Number: 0.19 Revision Date: 05-07-2025

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