



Product: 4442FDZ ☑

Life Cycle Status: Capability

OSDP RS485, 3 Pr #20 Str TC, PO Ins, OS, LSZH Jkt, Eca

Product Description

OSDP RS-485, 3 Pair AWG 20 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

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	20 AWG	7x28	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.82 mm (0.032 in)	2.60 mm (0.102 in)	White/Blue & Blue/White, White/Orange & Orange/White, White/Green & Green/White

Outer Shield

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

Outer Jacket

r	Vaterial	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Ze	ero Halogen (Flame Retardant)	1.0 mm (0.039 in)	11.7 mm (0.461 in)
Overall Cable Diameter (Nominal):	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)	36 Ohm/km (11 Ohm/1000ft)	40 pF/m (12 pF/ft)	78 pF/m	120 Ohm	78%	2.7 Amps per Conductor

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.45 dB/100m (0.442 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

	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
Notes:	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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