



Product: [4540FDW](#) 

OSDP RS485, 1PR #22 Str TC, PO ins, OS, LSNH Jkt, Cca

Product Description

OSDP RS-485, 1 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + drainwire shielding, LSZH / FRNC jacket ,Cca

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable. For OSDP EIA RS-485 transmissions applications
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.75 mm (0.030 in)	2.24 mm (0.0882 in)	White & Blue, Blue & White

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	6.6 mm (0.26 in)

Overall Cable Diameter (Nominal):	6.6 mm (0.26 in)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	48.2 Ohm/km (14.7 Ohm/1000ft)	36.1 pF/m (11.0 pF/ft)	68.6 pF/m (20.9 pF/ft)	120 Ohm	78%	2.7 Amps per Conductor

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation) [dB/100m]
Pair(s)	1	1.64

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-45°C To +70°C	-15°C To +70°C	-45°C To +70°C

Bend Radius

Stationary Min.	Installation Min.
33 mm (1.3 in)	66 mm (2.6 in)

Max. Pull Tension:	200 N (45 lbf)
Bulk Cable Weight:	49 kg/km (33 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-s1a,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 μ S/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:	The estimated production lead time for the first order will be similar to the production lead time of 3107ENH
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History

Update and Revision:	Revision Number: 0.35 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #
4540FDW.00305

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