



Product: 4541FDW ☑

OSDP RS485, 2PR #22 Str TC, PO ins, OS, LSNH Jkt, Cca

Product Description

OSDP RS-485, 2 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Overall Foil +drainwire shielding, LSZH / FRNC jacket, CPR Cca

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)	2	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)	2.04 mm (0.0803 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 Smoke Zero Halog	en (Flame Retardant)	1.1 mm (0.043 in)	7.8 mm (0.31 in)
- 1	Overall Cable Diameter (Nominal):	7.8 mm (0.31 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)	48.2 Ohm/km (14.7 Ohm/1000ft)	36.1 pF/m (11.0 pF/ft)	68.6 pF/m	120 Ohm	78%	2.7 Amps per Conductor

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	1.64 dB/100m (0.500 dB/100ft)

Voltage

Voltage Rating 300 V

Mechanical Characteristics

Temperature

Operating Installation Storage

-20°C To +70°C | -10°C To +70°C | -45°C To +70°C

Bend Radius

Stationary Min.	Installation Min.
39 mm (1.5 in)	78 mm (3.1 in)

Max. Pull Tension:	300 N (67 lbf)
Bulk Cable Weight:	57 kg/km (38 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 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:	The estimated production lead time for the first order will be similar to the production lead time of 3107ENH
140100.	The community production food with the first order with the production food with order to the production food with the first order with the first order with the production food with the first order with the

History

Update and Revision:	Revision Number: 0.30 Revision Date: 04-08-2025	
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Part Numbers

Variants



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