



Product: [4640FDW](#) 

OSDP RS485, 1 Pr #24 Str TC, PO Ins, OS, LSZH Jkt, Cca

Product Description

OSDP RS-485, 1 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+drainwire, LSZH Outer Jacket, CPR 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	24 AWG	7x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	0.4 mm (0.016 in)	1.40 mm (0.0551 in)	White & Blue, Blue & White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.10 mm (0.0433 in)	5.10 mm (0.201 in)

Overall Cable Diameter (Nominal):	5.10 mm (0.201 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)	78.7 Ohm/km (24.0 Ohm/1000ft)	42 pF/m (13 pF/ft)	75.5 pF/m (23.0 pF/ft)	120 Ohm	78%	2.1 Amps per Conductor

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation) [dB/100m]
Pair(s)	1	1.97

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.
26 mm (1.0 in)	51 mm (2.0 in)

Max. Pull Tension:	150 N (34 lbf)
Bulk Cable Weight:	33 kg/km (22 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: 0.31 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #
4640FDW.00305

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