



**Product:** [6540FD](#) 

1Pr 22AWG Overall Shielded Data OSDP, RS-485 CMP

## Product Description

OSDP Reader Cable, 1 Pair 22 AWG stranded (7x32) tinned copper (data) with foam FEP insulation, Beldfoil® shield w/ drain, with Flamarrest® insulation, Plenum, Flamarrest®

## Technical Specifications

### Product Overview

Suitable Applications:	OSDP Readers, RS-485, Serial Data, Access Control
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### Construction Details

#### Conductor

Element	No. of Pairs	Size	Stranding	Material	Notes
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper	Twisted Pair Configuration - 120 Ohm RS485

#### Insulation

Material	Nom. Thickness	Color Code
FEP - Fluorinated Ethylene Propylene (Foam)	.023 in.	Black & 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
Flamarrest®	.015 in (0.38 mm)	.177 in (4.50 mm)

Overall Cable Diameter (Nominal):	.177 in (4.50 mm)
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### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
17 Ohm/1000ft (56 Ohm/km)	11.2 pF/ft (36.7 pF/m)	23.4 pF/ft (76.8 pF/m)	120 Ohm	76%	2.8 Amps per Conductor at 20°C

#### Voltage

UL Voltage Rating
300 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

#### Bend Radius

Stationary Min.	Installation Min.

1.44 in (36.6 mm) 1.4 in (36 mm)

Max. Pull Tension:	36 lbs (16 kg)
Bulk Cable Weight:	22 lbs/1000ft (33 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, NFPA 262
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.11 Revision Date: 04-26-2024
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