



Product: [6541FD](#) 

2 Pr #22 STR TC, FEP, Ov Shld OSDP Readers CMP

Product Description

RS485, OSDP Reader, 2 Pr #22 Str TC, FEP, Overall Shield, CMP

Technical Specifications

Product Overview

Suitable Applications:	RS-485 Serial Data, Dual OSDP Reader Access Control
------------------------	---

Construction Details

Conductor

Element	No. of Pairs	Size	Stranding	Material	Notes
Data Pair(s)	2	22 AWG	7x30	TC - Tinned Copper	2 Pair Construction. Each Pair RS-485 OSDP Reader

Insulation

Element	Material	Nom. Thickness	Color Code
Data Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	.023 in (0.58 mm)	Pair 1: White, Green, Pair 2: Brown, Blue

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	Ripcord
PVC - Polyvinyl Chloride	.016 in (0.41 mm)	.292 in (7.04mm)	Yes

Outer Jacket1 Table Notes:	Flamearrest Plenum Jacket
----------------------------	---------------------------

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Max. Current
Data Pair(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	13.5 pF/ft (44.3 pF/m)	24 pF/ft (79 pF/m)	120 Ohm	2.2 Amps per conductor @ 25°C

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
1.9 in (48 mm)	1.9 in (48 mm)

Max. Pull Tension:	58 lbs (26 kg)
--------------------	----------------

Bulk Cable Weight:	27 lbs/1000ft (40 kg/km)
--------------------	--------------------------

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.8 Revision Date: 03-07-2024
----------------------	--

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.