



Product: [89892](#)

Transceiver 10BASE5, #20-4pr, FEP, PVC Jkt, CMP

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, FEP insulation, twisted pairs, individual Beldfoil® shields (100% coverage), overall polyester isolation tape and Duofoil® shield + a tinned copper braid shield (95% coverage), fluorocopolymer jacket, plenum rated.

Technical Specifications

Product Overview

Suitable Applications:	10Base5 Transceiver
------------------------	---------------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
20	7x28	TC - Tinned Copper	4

Conductor Count:	8
------------------	---

Insulation

Material	Material Trade Name	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.011 in

Color Chart

Number	Color
1	Gray & White
2	Yellow & Orange
3	Blue & Green
4	Red & Black

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	TC - Tinned Copper	22	7x30

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
PVDF - Polyvinylidene Fluoride	0.359 in	0.014 in	Polyester Tape

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	1.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
16.7 pF/ft	29.5 pF/ft

Inductance

Nominal Inductance
0.2 µH/ft

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
78 Ohm	± 5 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	6 dB/100m

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	1.3 ns/ft	78%

High Frequency

Max. Insertion Loss (Attenuation)
6 dB/100m

Current

Max. Recommended Current [A]
2.8 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	150°C
Operating Temperature Range:	-40°C To +150°C

Mechanical Characteristics

Bulk Cable Weight:	90 lbs/1000ft
Max. Pull Tension:	175 lbs
Min. Bend Radius/Minor Axis:	3.75 in

Standards

Customer Reference Document:	DEC Part No. 17-00321-02
NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
IEEE Compliance:	IEEE 802.3 10Base5

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

--

Plenum (Y/N):	Yes
---------------	-----

Related Part Numbers

Non-Plenum Number:	9901
--------------------	------

Variants

Item #	Color	UPC
89892 0011000	Brown	612825221388
89892 001500	Brown	612825221395

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

Product Notes

Notes:	Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
--------	---

History

Update and Revision:	Revision Number: 0.356 Revision Date: 02-03-2025
----------------------	--

© 2025 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.