



Product: [8772ELV](#)

Life Cycle Status: Capability

Electronic, 3C #20 Str TC, PO ins, OS, LSNH Jkt 300V, B2ca

Product Description

Electronic, 3 Conductor AWG 20 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V, B2ca

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
------------------------	--

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	7x28	TC - Tinned Copper	3

Conductor Count:	3
------------------	---

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	1.78 mm	0.05 mm	0.017 in

Color Chart

Number	Color
Wire 1	Black
Wire 2	Red
Wire 3	Clear

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	9 / 12 µm	TC - Tinned Copper	AWG20/7	7x28

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.65 mm	0.9 mm

Construction and Dimensions

Cabling

Description	Twists
3 wires twisted to cable core	6 twist/ft

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
34.5 Ohm/km	30.8 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
88.6 pF/m	167.3 pF/m

Impedance

Nominal Characteristic Impedance
69 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
66%

Current

Element	Max. Recommended Current [A]
Conductor(s)	4 A

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-30°C To +80°C
Operating Temperature Range:	-30°C To +80°C
Operating Temp Range (Fixed Install):	-30°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	180 N
Min. Bend Radius During Installation:	56.5 mm
Min. Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	B2ca-s1,d1,a1
GENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Product Notes

Notes:

This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 6km for the first order. This product will have Chrome as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 8772NH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.

History

Update and Revision:

Revision Number: 0.33 Revision Date: 06-19-2024

© 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.