

Product: 8205ELW ☑

Life Cycle Status: Capability



Electronic, 1PR #20 Str TC, FRNC ins, Unsh, LSNH Jkt, 300V, Cca

Product Description

Electronic, 1 Pair AWG 20 Tinned Copper - Stranded, FRNC insulation, Unshielded shielding, LSZH / FRNC jacket, 300V, CPR Cca

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Mater	ial	No. of Pairs
20	7x28	TC - Tinned	Copper	1
Condu	Conductor Count:		2	
Total I	Total Number of Pairs:		1	

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.65 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Black & Red

Outer Shield



Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.1 mm	0.89 mm

Construction and Dimensions

Cabling



Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 32.8 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor 65 pF/m

Current

Element	Max. Recommended Current [A]
Conductor(s)	3.7 Amps per Conductor

Voltage



Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	127 N
Min. Bend Radius During Installation:	51 mm

Standards

CPR Euroclass:	Cca-s2,d1,a1
of It Eurociass.	004-52,01,41

Applicable Environmental and Other Programs

nme	ental Spa	ce:	Indoor - Euroclass Cca

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, 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%

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 12km 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 8205NH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.47 Revision Date: 04-28-2025

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