

Product: 9207NH

100Ω Twinax, 1 Pr #20 Str-1c TC/1c BC, PE Jkt, Duofoil®+TC Braid, LSZH Jkt, IEC-60332-3C

Product Description

20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), LSZH outer jacket, Flame resistance IEC 60332-3C

Technical Specifications

Product Overview

Suitable Applications:	Twinaxial instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Insulated Conductor(s) A	20	7x28	BC - Bare Copper	1
Insulated Conductor(s) B	20	7x28	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Insulated Conductor(s) A	PE - Polyethylene	2.11 mm	0.08 mm
Insulated Conductor(s) B	PE - Polyethylene	2.11 mm	0.08 mm

Color Chart

Number	Color
Insulated conductor A	Clear
Insulated conductor B	Clear

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil
Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	85%	9 / 23 / 9 µm
Braid	Tinned Copper (TC)		85%	

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.6 mm	0.89 mm

Construction and Dimensions

Cabling

Description
2 wires twisted to cable core

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR

31.2 Ohm/km	6.6 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
47.6 pF/m	75.5 pF/m

Inductance

Nominal Inductance
0.51 µH/m

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.98 dB/100m
10 MHz	3.94 dB/100m
50 MHz	9.19 dB/100m
100 MHz	13.45 dB/100m
200 MHz	21 dB/100m
400 MHz	33.46 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
510 ns/ft	66%

Voltage

Voltage Rating [V]
300 V

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:	ASTMD741
Min. Bend Radius During Installation:	86 mm

Standards

CPR Euroclass:	Eca

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
9207NH.00100	Black	Reel	100 m	8719605020222
9207NH.00152	Black	Reel	152 m	8719605020246
9207NH.00305	Black	Reel	305 m	8719605020253
9207NH.00500	Black	Reel	500 m	8719605020260
9207NH.001000	Black	Reel	1,000 m	8719605020239

9207NH.01250	Gray	Reel	250 m	8719605020284
9207NH.011000	Gray	Reel	1,000 m	8719605020277

History

Update and Revision:	Revision Number: 0.252 Revision Date: 02-03-2025

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