



Product: [89907](#)

Thinnet 10BASE2, RG-58A/U Type, #20 Str, FFEP, Duobond II+TC Braid, PVDF Jkt, CMP

Product Description

IEEE 802.3 Ethernet Thinnet 10BASE2, 20 AWG (19x32) tinned copper conductor, foam FEP insulation, Duobond® II (100% coverage) + tinned copper braid shield (95% coverage), fluorocopolymer jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	Thin Ethernet (IEEE 802.3 10BASE2)
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Construction Details

RG Type:	58
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Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	19x32	0.037 in	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PFA - Perfluoroalkoxy (Foam)	0.100 in (2.54 mm)	White

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Tinned Copper (TC)		93%

Outer Jacket

Material	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.165 in (4.19 mm)

Overall Cable Diameter (Nominal):	0.165 in (4.19 mm)
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Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
1 MHz	0.43 dB/100ft
10 MHz	1.3 dB/100ft
50 MHz	2.91 dB/100ft
100 MHz	4.18 dB/100ft
200 MHz	6.1 dB/100ft
400 MHz	9.2 dB/100ft
700 MHz	12.9 dB/100ft
900 MHz	15.0 dB/100ft
1000 MHz	16.0 dB/100ft

Power Rating

Frequency	Max. Power Rating
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1 MHz	6,450 W
10 MHz	1,850 W
50 MHz	890 W
100 MHz	640 W
200 MHz	470 W
400 MHz	360 W
700 MHz	290 W
900 MHz	270 W
1,000 MHz	260 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
8.5 Ohm/1000ft (28 Ohm/km)	5.8 Ohm/1000ft (19 Ohm/km)	26.0 pF/ft (85.3 pF/m)	50 Ohm	80%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-15°C to +150°C

Bend Radius

Installation Min.
1.6 in (41 mm)

Max. Pull Tension:	45 lbs (20 kg)
Bulk Cable Weight:	26 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Aerial - When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
CEC / C(UL) Compliance:	CMP
IEEE Compliance:	802.3 10Base2
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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)
Non-Plenum Number:	9907

History

Update and Revision:	Revision Number: 0.521 Revision Date: 11-27-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
89907 E4X500	Gray, Light Dec	Reel	500 ft	612825221449	C
89907 E4X1000	Gray, Light Dec	Reel	1,000 ft	612825221425	C
89907 E4X2500	Gray, Light Dec	Reel	2,500 ft	612825221432	C Z

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