



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)		95%

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.
9.5 Ohm/1000ft (31 Ohm/km)	3.7 Ohm/1000ft (12 Ohm/km)	26.0 pF/ft (85.3 pF/m)	50 Ohm	79%

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:	36 lbs (16 kg)
Bulk Cable Weight:	26 lbs/1000ft (39 kg/km)

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)
Other Standard Compliance(s):	DEC Part No. 17-01246-00
Non-Plenum Number:	9907

History

Update and Revision:	Revision Number: 0.433 Revision Date: 05-10-2023
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Part Numbers

Variants

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

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