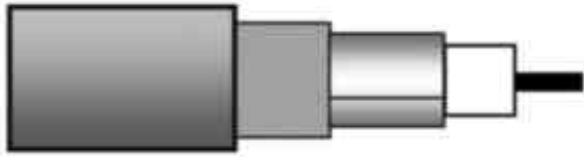


H155A02

Part Number: H155A02

COAX RF H155 FRNC



Product Description

COAX RF H155 FRNC

Product Specifications

Application

Application 1:	50 Ohm low loss coaxial transmission cable designed according European Standard EN 50117-1
Application 2:	Operating Frequencies between 5 and 6000 MHZ

Technical Specifications

Bend Radius

Min Bend Radius (W/o Pulling Strength):	60 mm
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CCB-Sub-Crush Resistance

Crush Resistance:	Max. 1% (load of 700N) N
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CCB-Sub-Material

Min Elongation at Break of Jacket:	125 MPa
Min Tensile Strength of Jacket:	9 lbs

EMEA Standard

CENELEC Compliance:	EN 50117-1, EN 50117-2-4 and EN 50290-2-20
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Environmental Characteristics

Operating Temp Range:	-30 to +70 °C
Storage Temp Range:	-30 to +70 °C
Installation Temp Range:	-5 to +50 °C

General Electrical Parameters

Min Insulation Resistance:	10000 mOhm/1000ft
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History

Revision Date:	2013-06-13
Revision Number:	3

Safety

ISO/IEC Flammability:	IEC 60332-1-2
Amt of Halogen Acid Gas; Max Conductivity:	10 µS/mm
Amt of Halogen Acid Gas; Min pH:	4.3
Smoke Density; Min Transmittance:	Zero N

Stripping Performance

Adhesion Dielectric:	5-50 at 25 mm
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Use

Max Recommended Pulling Tension:	100 lbs
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Impedance:

Nominal Characteristic Impedance

50 mOhm/ft	3 Ohm	Min. 40 dB
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Conductor DCR:

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
15.4 Ohm/100m	32.4 Ohm/1000ft	17 Ohm/km

Delay:

Nominal Velocity of Propagation (VP) Velocity of Propagation Tolerance

80 ns/100m	2 %
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Voltage:**Voltage Test Dielectric**

2 kV DC

High Freq:

Element	Frequency [MHz]	Min. RL (Return Loss)
	5 - 30 MHz	20 dB
	30 - 470 MHz	20 dB
	470 - 1000 MHz	18 dB
	1000 - 2000 MHz	16 dB
	2000 - 3000 MHz	15 dB
	3000 - 6000 MHz	15 dB

In each frequency band, 3 peak values up to 4 dB lower are allowed, values above 3000 MHz for information only

Screening:

Frequency	Min. Screening Attenuation
30 - 1000 MHz	85

Capacitance:

Capacitance Tolerance	Nominal Capacitance
3 pF/m	84 pF/m

High Frequency (Nominal/Typical):

Element	Frequency (MHz)	Nom. Insertion Loss
	5 MHz	2.5 db/100m
	50 MHz	6.9 db/100m
	100 MHz	9.1 db/100m
	230 MHz	13.4 db/100m
	400 MHz	18 db/100m
	800	26.1 db/100m
	862	27.3 db/100m
	1000	29.6 db/100m

	1350	34.9 db/100m
	1750	40.3 db/100m
	2150	46 db/100m
	2400	49.1 db/100m
	3000	56.3 db/100m
	3600	62.9 db/100ft
	4200	69.1 db/100ft
	4800	75.1 db/100ft
	5400	80.8 db/100ft
	6000	86.5 db/100ft
Max. attenuation 10% higher		

Insulation:

Element	Type	Material	Nominal Diameter	Diameter +/- Tolerance
	Dielectric	Foamed Polyethylene	3.9 mm	0.15 mm
Centricity min. 85%				

Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance
FRNC / LSNH	5.4 mm	0.2 mm

Conductor:

Stranding	Material	ConstructionNXD	Nominal Diameter	Diameter +/- Tolerance
Stranded	Bare copper	19x0.28 mm	1.41 in	0.03 mm

Outershield 1:

Type	Layer	Material	Coverage	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Aluminum / Polyester / Aluminum		2 mm			
Braid	2	Tinned copper	80 %		4.5 mm	0.25 mm	5 %

Product Variants

Part Number	Color	Put-Up Type	Length
H155A02.001010	BLACK	Reel	1010 m
H155A02.00505	BLACK	Reel	505 m
H155A02.01010	BLACK	Reel	

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