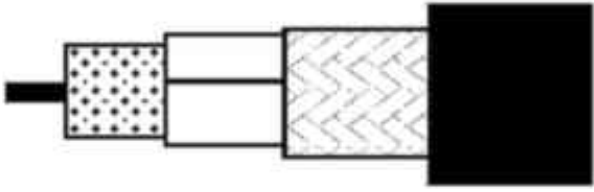


H155E01

Part Number: H155E01

COAX RF H155E PE



Product Description

COAX RF H155E PE

Product Specifications

Application

Application 1:

Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196

Technical Specifications

Bend Radius

Min Bend Radius (W/o Pulling Strength):

60 mm

CCB-Sub-Crush Resistance

Crush Resistance:

Max. 1% (load of 700N) N

CCB-Sub-Material

Min Elongation at Breakof Jacket:

150 MPa

Min Tensile Strength of Jacket:

12.5 lbs

EMEA Standard

CENELEC Compliance:

EN 50117-1

Environmental Characteristics

Operating Temp Range:

-40 to +70 °C

Storage Temp Range:	-40 to +70 °C
Installation Temp Range:	-5 to +50 °C

General Electrical Parameters

Min Insulation Resistance:	10000 mOhm/1000ft
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Global Standard

ISO/IEC Compliance:	IEC 1196
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History

Revision Date:	2009-10-01
Revision Number:	1

Stripping Performance

Adhesion Dielectric:	5-50 at 25 mm
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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
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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
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	30 - 470 MHz	20 dB
	470 - 1000 MHz	18 dB
	1000 - 2000 MHz	16 dB
	2000 - 3000 MHz	15 dB

In each frequency band, 3 peak values up to 4 dB lower are allowed

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	2.6 db/100m
	50 MHz	6.9 db/100m
	100 MHz	9.3 db/100m
	230 MHz	14.4 db/100m
	400 MHz	19.2 db/100m
	800	27.6 db/100m
	862	28.7 db/100m
	1000	29.4 db/100m
	1350	36.6 db/100m
	1750	42.1 db/100m
	2150	47.2 db/100m
	2400	50.2 db/100m

Max. attenuation 10% higher

Insulation:

Element	Type	Material	Nominal Diameter	Diameter +/- Tolerance
	Dielectric	Foamed Polyethylene	3.75 mm	0.15 mm
Centricity min. 85%				

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance
	Polyethylene	5.4 mm	0.2 mm
According to European Standard HD 624			

Conductor:

Stranding	Material	ConstructionNXD	Nominal Diameter
Stranded	Bare copper	7x0.48 mm	1.45 in

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 %		4.45 mm	0.25 mm	5 %

Product Variants

Part Number	Color	Put-Up Type	Length
H155E01.00B100	BLACK	Flat Box	100 m

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