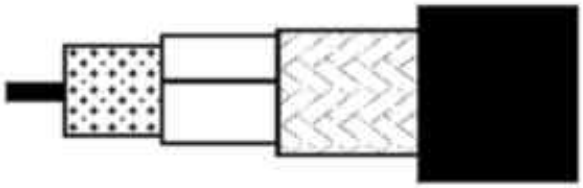

H500C00

Part Number: H500C00

COAX RF H500 PE

Product Description

COAX RF H500 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):	100 mm

CCB-Sub-Crush Resistance

Crush Resistance:	Max. 1% (load of 700N) N

CCB-Sub-Material

Min Elongation at Breakof Jacket:	300 MPa
Min Tensile Strength of Jacket:	10 lbs

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

Global Standard

ISO/IEC Compliance:	IEC 1196

History

Revision Date:	2005-11-02
Revision Number:	2

Stripping Performance

Adhesion Dielectric:	39-390 at 50 mm

Impedance:

Nominal Characteristic Impedance		
50 mOhm/ft	2 Ohm	Min. 46 dB

Conductor DCR:

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
3.8 Ohm/100m	15.3 Ohm/1000ft	11.5 Ohm/km

Delay:

Nominal Velocity of Propagation (VP)	Velocity of Propagation Tolerance
81 ns/100m	2 %

Voltage:

Voltage Test Dielectric
3 kV DC

Screening:

Frequency	Min. Screening Attenuation
30 - 1000 MHz	90

Capacitance:

Capacitance Tolerance	Nominal Capacitance

3 pF/m	82 pF/m

High Frequency (Nominal/Typical):

Element	Frequency (MHz)	Nom. Insertion Loss
	5 MHz	0.9 db/100m
	50 MHz	2.9 db/100m
	100 MHz	4.1 db/100m
	200 MHz	6 db/100m
	400 MHz	8.7 db/100m
	600	10.9 db/100m
	800	12.9 db/100m
	1000	14.6 db/100m
	1350	17.4 db/100m
	1750	20.3 db/100m
	2150	23 db/100m
	2400	24.6 db/100m
	5000	38.9 db/100m
	10000	61.7 db/100ft
Max. attenuation 10% higher		

Insulation:

Element	Type	Material	Nominal Diameter	Diameter +/- Tolerance
	Dielectric	Foamed Polyethylene	7 mm	0.2 mm
Centricity min. 85%				

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter - Tolerance
	Polyethylene	9.8 mm	0.3 mm
According to European Standard HD 624			

Conductor:

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance
Solid	Bare copper	2.5 in	0.03 mm

Outershield 1:

Type	Layer	Material	Coverage	Min. Overlap	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Tape	1	Copper		2 mm			
Braid	2	Bare copper	50 %		7.45 mm	0.25 mm	5 %

Product Variants

Part Number	Color	Put-Up Type	Length
H500C00.002000	BLACK	Reel	2000 m
H500C00.00250	BLACK	Reel	250 m
H500C00.00500	BLACK	Reel	500 m
H500C00.00C100	BLACK	Coil	100 m
H500C00.012000	BLACK	Reel	2000 m

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.