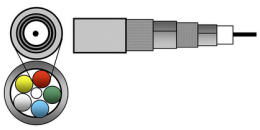
Product: YE03413



5X COAX MINI RG59/U QUAD SHIELD PVC HEAD END

Product Description

5X COAX [0.58/2.6] MINI RG59U/ QUAD SHIELD PVC HEAD END

Technical Specifications

Product Overview

Suitable Applications:	Mini RG59 tri shield coaxial cable used where immuntiy to conducted disturbances is required, but space is limited; Coaxial cable used in cable broadBand communication networks designed according European Standard EN 50117-1; Operating frequencies between 5 and 3000 MHz

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
23	Solid	BC - Bare Copper	0.58 mm	0.02 mm	5

Conductor Count:	5

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	2.59 mm	0.15 mm

Color Chart

Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

Inner Shield

Type	Layer	Material	Coverage [%]	Min. Overlap	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)		2 mm	
Braid	2	Tinned Copper (TC)	95%		5%
Tape	3	Tri-Laminate (Alum+Poly+Alum)		1 mm	
Braid	4	Tinned Copper (TC)	90%		5%

Inner Jacket

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	4.7 mm	0.23 mm

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	14.5 mm

Construction and Dimensions

Cabling

Description	Filler

5 coax bundled around a filler covered with nonwoven foil	Polypropylene (1x)

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
66 Ohm/km	75 Ohm/1000ft	6.5 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
53 pF/m	2 pF/m

Min Insulation Resistance:	10000 MOhm*km

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
75 Ohm	3 Ohm	Min. 40 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.7 dB/100m
3.6 MHz	2.6 dB/100m
10 MHz	3.9 dB/100m
71.5 MHz	10 dB/100m
135 MHz	12.5 dB/100m
270 MHz	17.7 dB/100m
540 MHz	25.3 dB/100m
720 MHz	31.1 dB/100m
750 MHz	31.5 dB/100m
1000 MHz	34.4 dB/100m
1500 MHz	42.7 dB/100m
2000 MHz	52 dB/100m
2250 MHz	52.5 dB/100m
3000 MHz	60.7 dB/100m

Table Notes:	Max. attenuation 10% higher

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/ft	83%	2%

High Frequency

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 30 MHz	23 dB
30 - 850 MHz	23 dB
850 - 3000 MHz	21 dB

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

Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	110 dB
1000 - 2000 MHz	95 dB
2000 - 3000 MHz	85 dB

Screening Class:	A++

Transfer Impedance

Frequency [MHz]	Transfer Impedance
5-30 MHz	Max. 0.9 mOhm/m

Temperature Range

Installation Temperature Range:	-5°C To +50°C

Storage Temperature Range:	-40°C To +70°C
Operating Temperature Range:	-40°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	160 N
Min Bend Radius (W/o Pulling Strength):	150 mm
Min Bend Radius (Each Coax):	47 mm

Standards

CENELEC Compliance:	EN 50117-1, EN 50117-9-2, EN 50290-2-20
RG Type:	Mini 59

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor

Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT4
IEC Flammability:	IEC 60332-3-24

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
YE03413.00500	Black	Reel	500 m	8719605118417

History

Update and Revision:	Revision Number: 0.145 Revision Date: 04-29-2024