



**Part Number:** YE01804

**COAX MINI RG59/U QUAD SHIELD PVC HEAD END**

## Product Description

COAX [0.58/2.6] MINI RG59/U QUAD SHIELD PVC HEAD END

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Mini RG59 tri shield coaxial cable used where immunity 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

Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	BC - Bare Copper	0.58 mm	0.02 mm	1

Conductor Count:	1
Conductor Size:	23 AWG

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	FPE - Foamed Polyethylene	2.59 mm	0.15 mm

#### Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape, bonded to dielectric	1	Aluminum/Polyester/Aluminum		2 mm		
Braid	2	TC - Tinned Copper	95 %			5 %
Tape	3	Aluminum/Polyester/Aluminum		1 mm		
Braid	4	TC - Tinned Copper	90 %		4.1 mm	5 %

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness	Nominal Wall Thickness
PVC - Polyvinyl Chloride	4.7 mm	0.23 mm	0.77 mm	0.9 mm

### Construction and Dimensions

Min Elongation at Break of 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

Capacitance Tolerance	Nom. Capacitance Conductor to Shield
2 pF/m	53 pF/m

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

Delay

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

High Freq

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

High Freq Table Note:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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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++
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Transfer Impedance

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

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

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

Mechanical Characteristics

Max Recommended Pulling Tension:	160 N
Min Bend Radius (W/o Pulling Strength):	47 mm
Crush Resistance:	Max. 1% (load of 700N) N
Adhesion Dielectric:	No shrinkback N

Standards

CPR Euroclass:	Eca
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CENELEC Compliance:	EN 50117-1, EN 50117-2-4 and EN 50290-2-20
RG Type:	Mini 59/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color
YE01804.10500	Black
YE01804.06500	Blue
YE01804.01500	Brown
YE01804.08500	Gray
YE01804.00500	Green
YE01804.03500	Orange
YE01804.02500	Red
YE01804.07500	Violet
YE01804.09500	White
YE01804.04500	Yellow

History

Revision Number:	3
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