Mini 75 Ohm RG59 Quad-shield Cable

A BELDEN BRAND

General Description

Key applications for WSE Legacy, Mini RG59 quad-shield coax cable and connectors include broadband routers and switching equipment where immunity to conducted disturbances is required, but space is limited. The quad-shield cable features a 100% bonded foil, 95% inner braid, 100% foil and 90% outer braid configuration. The conductor is solid 23 AWG copper. This cable is approved for use by Cisco on CMTS routers and exceeds the conducted RF immunity requirements of EN61000-4-6.

Mini RG59 Quad-shield, Single

Mini RG59 Quad-shield, Multipack

Electrical Specifications

Specification	Value
Impedance	75 +/- 1.5 ohms
Nominal Inductance	0.106 µH/ft
Nominal Capacitance Conductor to Shield	16.3 pF/ft
Nominal Velocity of Propagation	82%
Nominal Delay	1.24 ns/ft
Nominal Conductor Resistance at 20 °C (68 °F)	20.1 ohms/1,000 ft
Nominal Shield DC Resistance at 20 °C (68 °F)	3.5 ohms/1,000 ft
Nominal Return Loss	23dB min., 5-1,200 MHz 21dB min., 1,200-3,000 MHz
Max. Operating Voltage	300 Vrms (UL)

Physical Specifications

Specification	Value
Conductor	Solid copper, 23 AWG, 0.023”
Shielding	100% bonded APA foil 95% tinned copper inner braid 100% APA foil 90% tinned copper outer braid
Temperature Rating	-30 to 75 °C (-22 to 167 °F)
Diameter over Dielectric	0.102 in nominal
Dielectric Material	Gas Injected Foam High Density PE
Maximum Pulling Tension	67 lbs
Minimum Bend Radius	1.75 in

Cable Specifications

Specification	Value
NEC/(UL) Specification	CMR
UL Flame Test	UL 1666 Vertical Riser
Suitability	Indoor use only
RoHS Compliant	Yes
Applicable Specification	ANSI/SCTE 117 2018

Perfomance Specifications

(Nominal Attenuation)

Frequency (MHz)	Maximum (dB/100ft)
5	1.01
55	2.86
211	5.37
250	5.79
270	6.02
300	6.34
330	6.65
350	6.84
400	7.34
450	7.80
500	8.22
550	8.65
600	9.04
750	10.14
870	10.93
1000	11.77
1219	13.06
1500	14.56
2000	16.95
2250	18.05
3000	21.05

Attenuation (max corrected to 20 °C (68 °F)

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Ordering Information

Part Number	Description	Nominal O.D.	Nominal Weight	Min. Bend Radius	Max Pulling Tension
YR50391	Mini RG59 Quad-shield, Single*	.185 in	30.0 lb/1,000 ft	1.75”	67 lbs
YR50386	Mini RG59 Quad-shield, 5-pack (first 5 colors)*	.690 in	225.0 lb/1,000 ft	5.5”	180 lbs
YR52310	Mini RG59 Quad-shield, 5-pack (second 5 colors)*	.690 in	225.0 lb/1,000 ft	5.5”	180 lbs
YR53058	Mini RG59 Quad-shield, 8-pack*	.720 in	290.0 lb/1,000 ft	7.2”	288 lbs
Y61301	MINI RG59 Quad-shield, 12-pack*	.911 in	443.0 lb/1,000 ft	9.1”	804 lbs

** Multiple Colors Available*

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