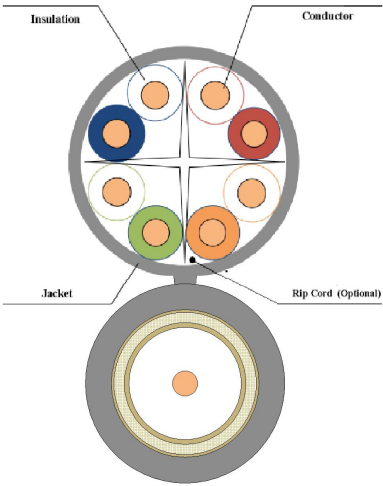


Cable

Mini RG59T + CAT6 U/UTP - Combi Cable - 4x2x24AWG - Class Eca

PRODUCT DESCRIPTION



MINI RG59T CONSTRUCTION

Inner conductor	Solid bare copper	$\Phi\ 0.58\pm0.01\text{mm}$
Insulation	Physically foamed PE	$\Phi\ 2.59\pm0.15\text{mm}$
1st Outer conductor	Bonded aluminum laminated tape	
2nd Outer conductor	Al-Mg alloy braid	
	Coverage: 90%	
3rd Outer conductor	Aluminum laminated tape	
Jacket	Flame retardant PVC	$\Phi\ 4.60\pm0.20\text{mm}$

CAT6 U/UTP 4X2X24AWG CONSTRUCTION

Inner conductor	Solid Bare Copper	$\Phi\ 0.52\pm0.02\text{mm}$
Insulation	Solid HDPE	$\Phi\ 1.00\pm0.05\text{mm}$
	Color	1 Blue & White/ Blue 2 Orange & White/ Orange 3 Green & White/ Green 4 Brown & White/ Brown
Filler	PE	“+” shape
Sheath	Flame retardant PVC	$\Phi\ 5.8\pm0.20\text{mm}$
	Rip cord	Nylon (Optional)

Cable

MINI RG59T ELECTRICAL PROPERTIES

Impedance	Ω	75 $\pm$ 3
Nominal Capacitance	pF/m	54
Propagation velocity	%	81
DC breakdown voltage	kV	2.5
Insulation resistance	M Ω •km	$\geq$ 5000

MINI RG59T TRANSMISSION PROPERTIES

Frequency	Attenuation	Attenuation
MHz	@20°C,dB/100m	@20°C,dB/100ft
71.5	10.17	3.10
135	12.47	3.80
270	17.72	6.40
360	20.34	6.20
540	25.26	7.70
720	29.86	9.10
750	31.17	9.50
1000	34.45	10.50
1500	42.65	13.00
2500	55.45	16.91
3000	60.70	18.51

Attenuation values may have a tolerance of +5%.

MINI RG59T STRUCTURE RETURN LOSS

5-1000MHz	dB	$\geq$ 21
1000-2000MHz	dB	$\geq$ 18
2000-3000MHz	dB	$\geq$ 16

MINI RG59T SCREENING ATTENUATION

30-1000MHz	dB	$\geq$ 95
1000-2000MHz	dB	$\geq$ 85
2000-3000MHz	dB	$\geq$ 75

Cable

CAT6 U/UTP 4X2X24AWG ELECTRICAL PROPERTIES

Impedance	Ω	100±15@≤100MHz 100±25@100~250 MHz
DC Resistance unbalance	For conductors, % For pairs, %	≤2 ≤4
Conductor DC Resistance	$\Omega/100m$	≤9.5@ 20°C
Insulation Resistance	M Ω .km	≥5000
Delay Skew	ns/100	≤45

CAT6 U/UTP 4X2X24AWG TRANSMISSION PROPERTIES

Frequency	Attenuation (max.)	Return loss (min.)	NEXT (min.)	PS NEXT (min.)	EL FEXT (min.)	PS EL FEXT (min.)	Delay (max.)
MHz	dB/100m	dB	dB	dB	dB	dB	ns/100m
4	3.8	23.0	66.3	63.3	56.0	53.0	552
8	5.3	24.5	61.8	58.8	49.9	46.9	547
10	6.0	25.0	60.3	57.3	48.0	45.0	545
16	7.6	25.0	57.2	54.2	43.9	40.9	543
20	8.5	25.0	55.8	52.8	42.0	39.0	542
25	9.5	24.3	54.3	51.3	40.0	37.0	541
31.25	10.7	23.6	52.9	49.9	38.1	35.1	540
62.5	15.4	21.5	48.4	45.4	32.1	29.1	539
100	19.8	20.1	45.3	42.3	28.0	25.0	538
200	29.0	18.0	40.8	37.8	22.0	19.0	537
250	32.8	17.3	39.3	36.3	20.0	17.0	536

90m Fluke test

STANDARDS

2011/65/EU	Compliant
ANSI/TIA/EIA 568-B.2-1	Compliant