

Triax (RG58 alternative core), 50 Ohm, 2 GHz, 85°C, ø7.2 mm, LSFH jacket

G_03362-01

Properties

- Triax construction
- Triaxial with 50 Ohms characteristic impedance
- Alternative to standard RG cables



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm +/- 0.05 mm
1st screen	Copper, Tin plated	Braid, 96%	3.6 mm
Insulation	LSFH (modified polyethylene)	RAL 9005 - bk	4.95 mm +/- 0.15 mm
2nd screen	Copper, Tin plated	Braid, 96%	5.6 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	7.2 mm +/- 0.2 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 2.5 kV
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	9.7 g/m
Static bending radius	36 mm
Repeated bending radius	75 mm
Dynamic bending radius	110 mm

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Environmental data			
Operation temperature		-40 °C ... 85 °C	
Installation temperature		-20 °C ... 60 °C	
Fire characteristics		free of halogenes, acc. standard IEC 60754	
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511961	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
Suitable connectors			
Cable group		W2	
Ordering information			
Item number	Item description		Available as assembly only
22511961	G_03362-01		No
Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.3455	b coefficient typical =	0.2373
fmax =	2.0	P at 1 GHz =	100.0
Frequency	Nom. attenuation	Nom. attenuation	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.133	0.041	316
0.15	0.169	0.052	258
0.20	0.202	0.062	224
0.25	0.232	0.071	200
0.30	0.260	0.079	183
0.35	0.287	0.087	169
0.40	0.313	0.095	158
0.45	0.339	0.103	149
0.50	0.363	0.111	141
0.55	0.387	0.118	135
0.60	0.410	0.125	129
0.65	0.433	0.132	124
0.70	0.455	0.139	120
0.75	0.477	0.145	115
0.80	0.499	0.152	112
0.85	0.520	0.158	108
0.90	0.541	0.165	105
0.95	0.562	0.171	103
1.00	0.583	0.178	100

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