

**Triax (RG174 alternative core), grey jacket, 50 Ohm, 2 GHz, 85°C,
 ø4.25 mm, PVC jacket**
 G_02332-01

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper	Braid, 96%	2 mm
2nd screen	Copper	Braid, 91 %, RAL 7035 - gr	3.05 mm 0.1 mm
Jacket	PVC (Polyvinyl chloride)	RAL 7035 - gr	2.55 mm 0.13 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 2 GHz
Capacitance	100.7 pF
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	75 dB at frequency 0.001 GHz ... 2GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	126.2 Ω/km
Outer conductor resistance	31.6 Ω/km
Operating Voltage (at sea level)	≤ 1.5 kV
Test voltage (50 Hz/1 min)	≤ 3 kV

Mechanical data	
Weight	3 kg/m
Static bending radius	20 mm
Repeated bending radius	42 mm
Dynamic bending radius	85 mm

Triax (RG174 alternative core), grey jacket, 50 Ohm, 2 GHz, 85°C, Ø4.25 mm, PVC jacket

G_02332-01

Environmental data	
Operation temperature	-25 °C ... 85 °C
Installation temperature	-20 °C ... 85 °C

Suitable connectors	
Cable group	W1

Ordering information		
Item number	Item description	Available as assembly only
23023565	G_02332-01	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.817	b coefficient typical =	0.1489
fmax =	2	P at 1 GHz =	38
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.273	0.083	120
0.15	0.339	0.103	98
0.20	0.395	0.120	85
0.25	0.446	0.136	76
0.30	0.492	0.150	69
0.35	0.535	0.163	64
0.40	0.576	0.176	60
0.45	0.615	0.187	57
0.50	0.652	0.199	54
0.55	0.688	0.210	51
0.60	0.722	0.220	49
0.65	0.755	0.230	47
0.70	0.788	0.240	45
0.75	0.819	0.250	44
0.80	0.850	0.259	42
0.85	0.880	0.268	41
0.90	0.909	0.277	40
0.95	0.938	0.286	39
1.00	0.966	0.294	38
2.00	1.453	0.443	27

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P59227 / Date of publication: 17.06.2025 / uncontrolled copy