DATA SHEET

Twinax, RG22, 95 Ohm, 0.2 GHz, 85°C, ø10.7 mm, RADOX® jacket

RG_22_B/U-05

Properties

- Twinax cable
- Low loss
- Low smoke
- Flame retardant
- Railway qualified

Construction			
Component	**Material**	**Detail**	**Diameter**
1st Centre conductor	Copper	Strand-07	1.2 mm
1st Dielectric	PE (Polyethylene)		2.25 mm
2nd Centre conductor	Copper, Tin plated	Strand-07	1.2 mm
2nd Dialectric	PE (Polyethylene)		2.25 mm
Dielectric	PE (Polyethylene)		7.25 mm
Outer conductor	Copper, Tin plated	Braid, 94%	8 mm
Outer conductor	Copper, Tin plated	Braid, 95%	8.7 mm
Jacket	RADOX EM104	RAL 3027 - rd	10.7 mm +/- 0.2 mm

Electrical data	
Impedance	95 Ω +/-5Ω
Operating frequency	≤ 0.2 GHz
Capacitance	53 pF
Insulation resistance	> 100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 186 g/m
Static bending radius	≥ 55 mm
Repeated bending radius	110 mm (bendings, up to 50)
Dynamic bending radius	≥ 220 mm

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Environmental data	
Operation temperature	-40 °C ... 80 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	EN 60332-1-2
	IEC 60332-3-25
Fire characteristics	contains halogene, acc. standard IEC 60754
Smoke test	EN 61034-2
	LUL Standard 2-01001-002 §5.2.3

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84016404	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	

Additional Information
EN 45545 compliant hazard level for indoor cables HL3 MIL reference: M17/182-00001 (former reference: 17/15-RG022)

Suitable connectors	
Cable group	U99

Ordering information		
Item number	Item description	Available as assembly only
84016404	RG_22_B/U-05	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 =		b coefficient typical =	
fmax =	**0.2**	P at 1 GHz =	
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
Unable to calculate if a value is not set			

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