

## Coaxial Cable RG\_213\_/U

### Description

PE-50 Ohm - single screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PE (Polyethylene)		7.25 mm
Outer conductor	Copper	Braid, 96%	8.1 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.3 mm +/- 0.1

Print: HUBER+SUHNER RG 213 U 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	1 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MQm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 5 kV <sub>rms</sub> (at sea level)
Test voltage	10 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	15.3 kg/100 m
Min. bending radius	static 50 mm
	repeated (for ≤ 50 bendings) 100 mm

#### Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as RG\_213\_/U

#### Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

#### Suitable Connectors

Cable group U29 7 mm / 50 Ohm

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**Matrix** typical Attenuation [ formula:  $(a \cdot f^{0.5} + b \cdot f)$  ] and maximum Power CW [ formula:  $(p/f^{0.5})$  ]

Coefficients:

a = 0.1679

b = 0.0585

f<sub>max</sub> = 1

P at 1GHz = 416

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0.05	0.04	0.012	1860
0.1	0.06	0.018	1316
0.15	0.07	0.022	1074
0.2	0.09	0.026	930
0.25	0.1	0.030	832
0.3	0.11	0.033	760
0.35	0.12	0.037	703
0.4	0.13	0.039	658
0.45	0.14	0.042	620
0.5	0.15	0.045	588
0.55	0.16	0.048	561
0.6	0.17	0.050	537
0.65	0.17	0.053	516
0.7	0.18	0.055	497
0.75	0.19	0.058	480
0.8	0.2	0.060	465
0.85	0.2	0.062	451
0.9	0.21	0.065	439
0.95	0.22	0.067	427
1.0	0.23	0.069	416