

RG and SM Standard and sub-miniature coaxial cables

-65°C/+200°C

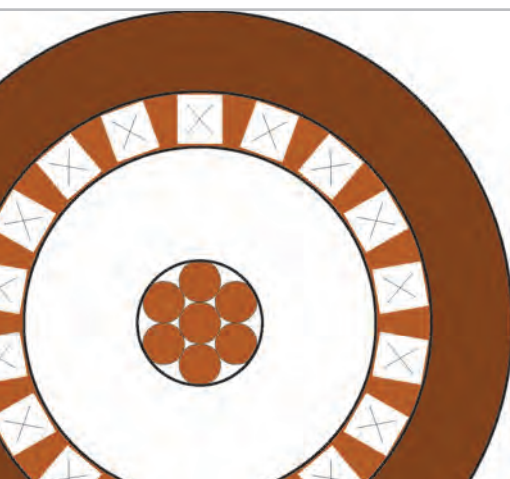
Coax

Flame retardant	IEC 60332-1-2 UL 1581 VW-1
Smoke generation	IEC 61034-2
Toxicity	IEC 60754-2
Frequency range	Up to 2.5 GHz
Screening efficiency	(single braid) -40 dB (double braid) -70 dB
Velocity propagation	70 %

Construction

Conductor	Silver Plated Copper (SPC) Silver Plated High Strength Copper Alloy (HSA)	Dielectric	PTFE
Shield	Braid of Silver Plated Copper (S)	Sheath	FEP
Core colour	Natural	Sheath	Brown-transparent
Marking	TYPE Habia Cable ORDER REFERENCE YEAR-WEEK BATCHCODE e.g. RG 142 Habia Cable 30000-142-50 2012-W20 121026001		

Description	Construction						Electrical			MBR	Article Number
	conductor material	conductor Ø	dielectric Ø	shield/s Ø	sheath/s Ø	weight g/m	V rms V DC	imp. Ω	cap. pF/m	fixed flexing	
RG 142	SPC 1x 0.94	0.94	2.95	S: 3.50 S: 4.10	4.80	80	1,400 2,800	50	95	25 50	30000-142-50
RG 178	SPC 7x 0.10	0.30	0.87	S: 1.37	1.75	8	500 1,000	50	94	10 20	30000-178-50
RG 179	SPC 7x 0.10	0.30	1.60	S: 2.15	2.50	15	900 1,800	75	63	15 30	30000-179-50
RG 316	SPC 7x 0.18	0.54	1.52	S: 2.05	2.45	15	900 1,800	50	94	15 30	30000-316-50
RG 400	SPC 19x 0.20	0.98	2.95	S: 3.50 S: 4.15	4.80	64	1,400 2,800	50	94	25 50	30000-400-50
SM 50	HSA 1x 0.16	0.16	0.52	S: 0.85	1.00	3	400 800	50	94	5 10	30000-050-00
SM 75	HSA 1x 0.10	0.10	0.55	S: 0.90	1.00	3	300 600	75	63	5 10	30000-075-00
SM 95	HSA 1x 0.10	0.10	0.95	S: 1.30	1.40	5	400 800	95	50	7 14	30000-095-00



Electrical data (table)	Attenuation (dB/100m)						Power (W)					
	Frequency (MHz)						Frequency (MHz)					
	30	100	400	1,000	2,500	6,000	30	100	400	1,000	2,500	6,000
RG 142	7	13	26	42	69	-	2,373	1,300	650	411	260	-
RG 178	25	46	93	148	237	-	274	150	75	47	30	-
RG 179	15	28	56	86	144	-	511	280	140	89	56	-
RG 316	15	27	54	86	139	-	621	340	170	108	68	-
RG 400	8	15	31	50	82	-	2,008	1,100	550	348	220	-
SM 50	36	65	130	207	329	-	117	64	32	20	13	-
SM 75	36	65	130	207	329	-	117	64	32	20	13	-
SM 95	26	47	95	151	242	-	219	120	60	38	24	-

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Application

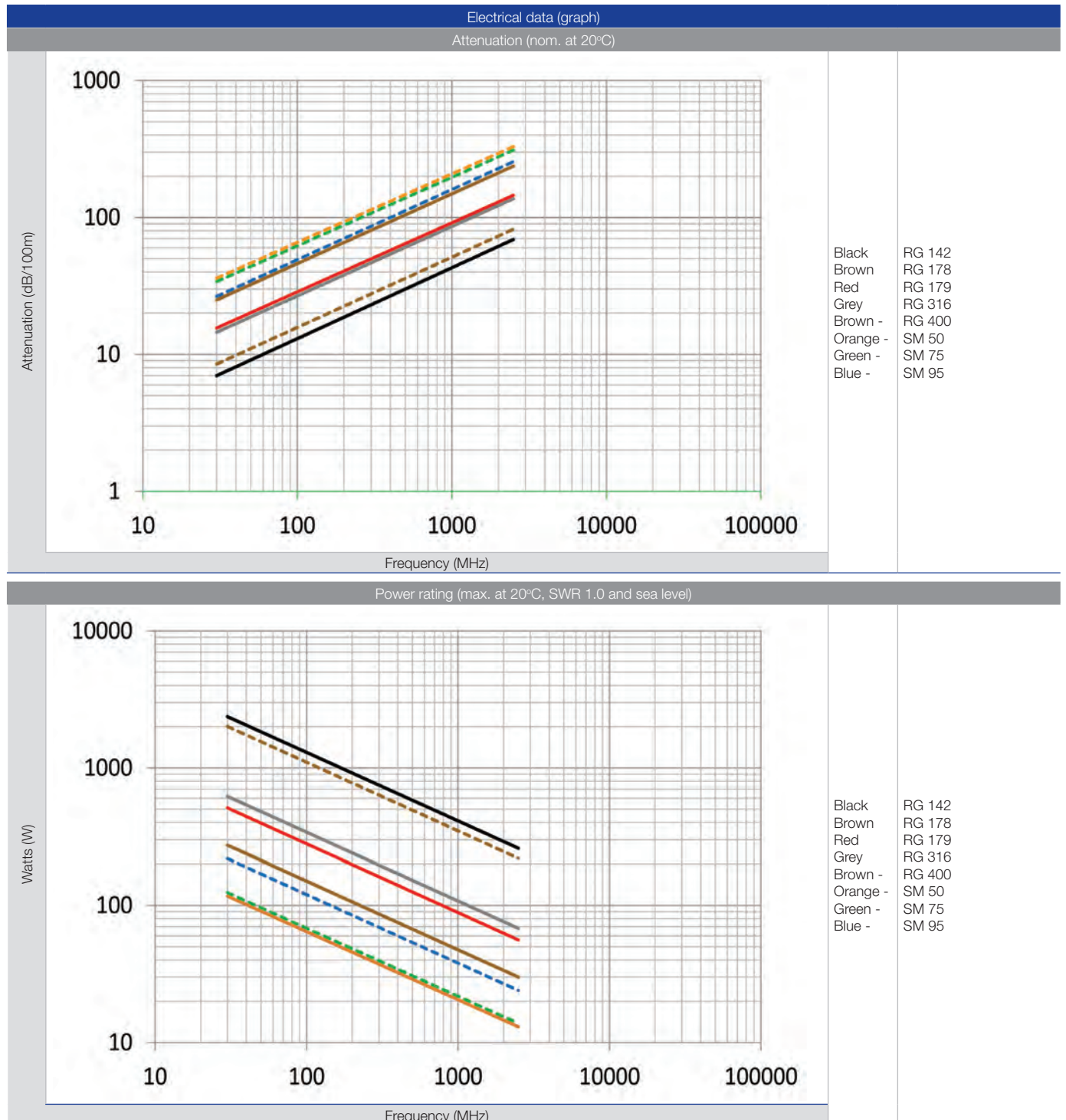
Coaxials use solid PTFE dielectrics and FEP sheaths in order to offer high temperature properties. These coaxials typically use non-magnetic conductors which are less susceptible to passive intermodulation as well as providing a more cost effective solution to the copper-covered steel conductor coaxes.

Variants

In order to provide a Low Smoke, Zero Halogen (LS0H) solution, many of these high-temperature fluoropolymer coaxes can be changed with RG or Speedflex alternatives as per the following cross-reference table:

Cross-reference table

RG 142	Replace with: Speedflex 142
RG 178	-
RG 179	Replace with: Speedflex 179
RG 316	Replace with: Speedflex 316
RG 400	Replace with: Speedflex 400
SM 50	-
SM 75	-
SM 95	-



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