

RG (M) Military grade coaxial cables

-65°C/+200°C

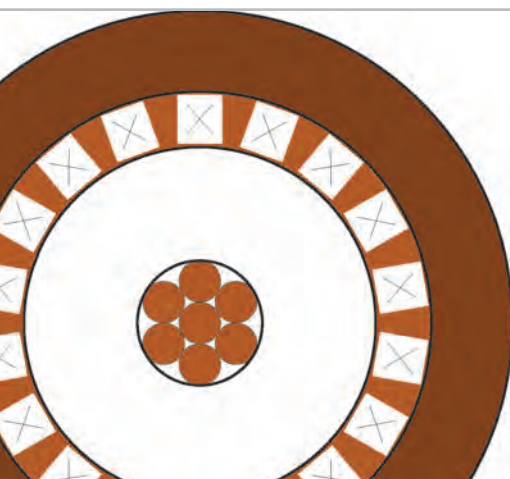
Coax

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 Copper Covered Steel (SCCS)	Dielectric	PTFE
Shield	Braid of Silver Plated Copper (S)	Sheath	FEP
Core colour	Natural	Sheath	Brown-transparent
Marking	-		

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 (M)	SCCS 1x 0.94	0.94	2.95	S: 3.50 S: 4.10	5.10	56	1,400 2,800	50	95	25 50	30000-142-00
RG 178 (M)	SCCS 7x 0.10	0.30	0.87	S: 1.37	1.75	8	500 1,000	50	94	10 20	30000-178-01
RG 179 (M)	SCCS 7x 0.10	0.30	1.60	S: 2.05	2.60	12	900 1,800	75	64	15 30	30000-179-00
RG 180 (M)	SCCS 7x 0.10	0.30	2.60	S: 3.15	3.60	27	1,000 2,000	95	50	20 40	30000-180-00
RG 302 (M)	SCCS 1x 0.64	0.64	3.70	S: 4.50	5.15	54	1,700 3,400	75	63	30 60	30000-302-00
RG 303 (M)	SCCS 1x 0.94	0.94	2.95	S: 3.70	4.30	45	1,400 2,800	50	94	25 50	30000-303-00
RG 304 (M)	SCCS 1x 1.50	1.50	4.70	S: 5.40 S: 6.10	7.10	130	2,200 4,400	50	94	40 80	30000-304-00
RG 316 (M)	SCCS 7x 0.18	0.54	1.52	S: 2.00	2.70	13	900 1,800	50	95	15 30	30000-316-01
RG 393 (M)	SPC 7x 0.80	2.43	7.24	S: 8.00 S: 8.70	10.10	180	1,900 3,800	50	95	50 100	30000-393-00
RG 400 (M)	SPC 19x 0.20	0.98	2.95	S: 3.50 S: 4.10	5.10	55	1,400 2,800	50	95	25 50	30000-400-00



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 (M)	7	13	26	42	69	-	2,373	1,300	650	411	260	-
RG 178 (M)	25	46	93	148	237	-	274	150	75	47	30	-
RG 179 (M)	15	28	56	86	144	-	511	280	140	89	56	-
RG 180 (M)	12	21	43	69	112	-	803	440	220	139	88	-
RG 302 (M)	6	11	22	36	59	-	2,373	1,300	650	411	260	-
RG 303 (M)	7	13	26	42	69	-	2,045	1,120	560	354	224	-
RG 304 (M)	5	9	18	30	49	-	4,382	2,400	1,200	759	480	-
RG 316 (M)	15	27	54	86	139	-	621	340	170	108	68	-
RG 393 (M)	4	7	14	23	39	-	6,573	3,600	1,800	1,138	720	-
RG 400 (M)	8	15	31	50	82	-	2,008	1,100	550	348	220	-

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Application

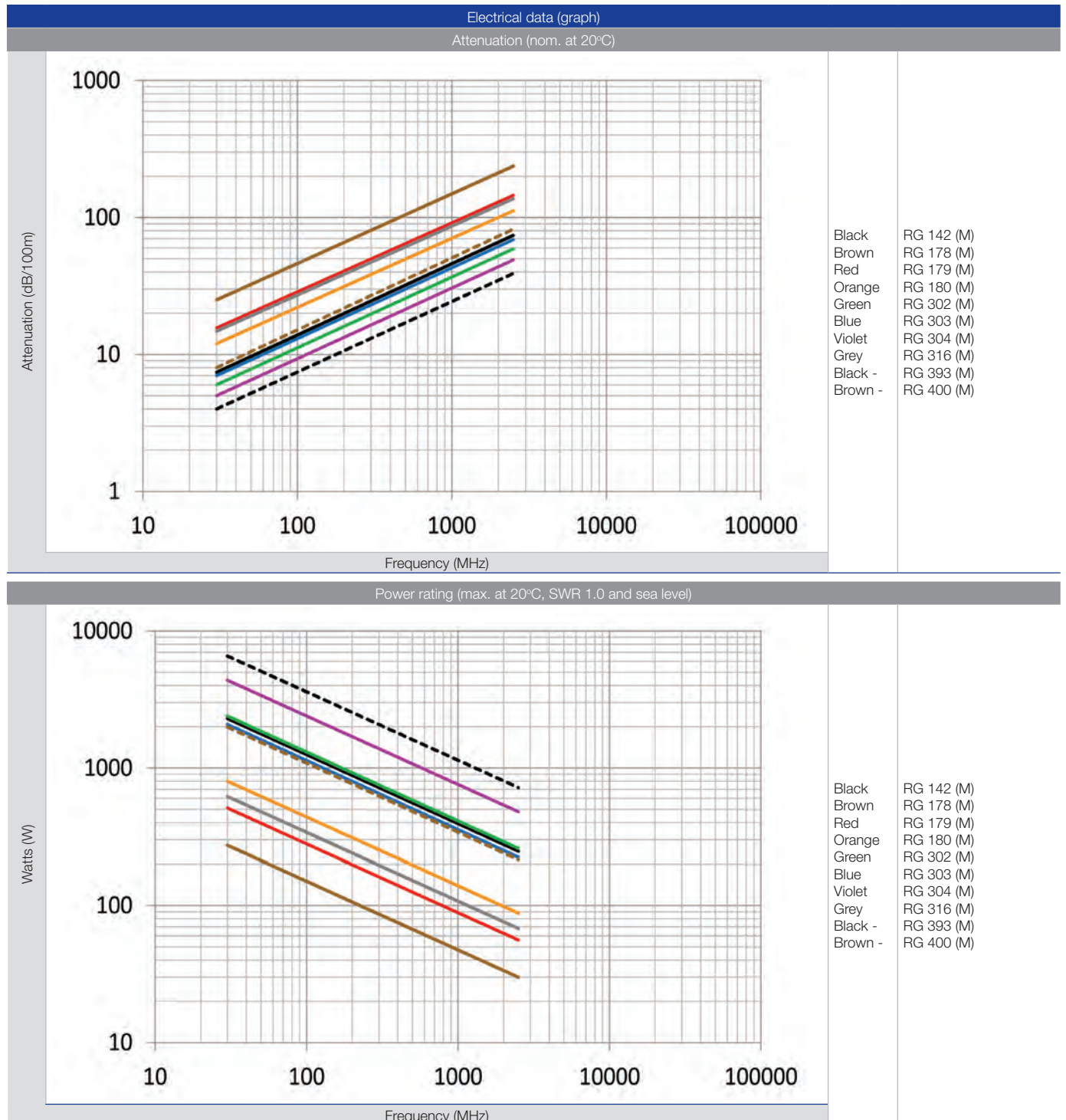
The original, military grade 'Brown' coaxials. These RG types use solid PTFE dielectrics and FEP sheaths in order to offer the highest possible electrical performance from a non-foamed coaxial. This is complemented by a wide temperature range of -55°C to +200°C which enables both a wide range of applications that the coax can be used in, and also excellent power ratings in relation to the size of the coax.

Variants

In order to provide a Low Smoke, Zero Halogen (LSOH) 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 (M)	Replace with: Speedflex 142
RG 178 (M)	-
RG 179 (M)	Replace with: Speedflex 179
RG 180 (M)	-
RG 302 (M)	Replace with: RG 59 (LSOH)
RG 303 (M)	-
RG 304 (M)	-
RG 316 (M)	Replace with: Speedflex 316
RG 393 (M)	Replace with: Speedflex 393
RG 400 (M)	Replace with: Speedflex 400



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