

RF cables

Edition 2008/2009



Standard RF coax cables

- POLYETHYLENE dielectric (PE) based on MIL-C-17
- RG_6 RG_214

Standard Coax 50Ω
Standard Coax 75Ω

Low loss RF coax cables

- Foamed POLYETHYLENE dielectric (SPE)

Low Loss 50Ω
Low Loss 75Ω
Low Phase 50Ω

Halogen free, standard RF coax cables

- with LSFH, RADOX® (Low Smoke Free of Halogen) jacket

Halogen free, standard 50Ω
Halogen free, standard 75Ω

Halogen free, low loss RF coax cables

- with LSFH, RADOX® (Low Smoke Free of Halogen) jacket

Halogen free, low loss 50Ω
Halogen free, low loss 75Ω

ENVIROFLEX coax cables

- halogen free RG replacement

ENVIROFLEX 50/75Ω

Railway approved RF coax cables

- halogen free, low smoke, flame retardant according to railway specifications

Railway 50/75Ω

High temperature, radiation resistant RF coax cables

- up to +165 °C
- RG_178 RG_393
- radiation resistant cables

HighTemp. 50Ω
HighTemp. 75Ω

Low noise coax cables

Low noise triax cables

Low Noise 50Ω
Low Noise 75Ω

Triax cables

Triax 50Ω
Triax 75Ω

Special impedances

Special imp.

Twinax cables

Twinax 78,95,105Ω

Multi coax cables

MultiCoax 50Ω
MultiCoax 75Ω

UL types

UL types

Material Selection Guide
Connector Groups

Material Comparison

ProdInfo

Radio Grade
General Information

Glossary
Type Index

Appendix

Standard RF coax cables

single screen

50 Ω

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range G and RG cables	PVC, PVC (UL), PVC2 (LM): -25 °C to +85 °C
Temperature range G and RG cables	LSFH, PUR, RADOX: -40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.

H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %					
G_01132.06	22511913	5 and 6	Wire	Cu	0.30	PE	1.00	CuAg	1.40	96	-	-	0.60	1.0	3	U1	U1
RG_174_U	22510040		Strand-7	SiCu	0.48	PE	1.48	CuSn	2.00	87	-	-	1.12	1.5	1	U2	U2
RG_174_A/U	22511579		Strand-7	SiCu	0.48	PE	1.48	CuSn	2.00	87	-	-	1.20	1.5	1	U2	U2
RG_174_A/U-60b)	22511810		Strand-7	SiCu	0.48	PE	1.48	CuSn	2.00	87	-	-	1.30	1.5	1	U2	U2
G_02262	22510862		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	96	-	-	1.33	1.5	1	U2	U2
G_02232	22510103		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	96	-	-	1.40	1.5	1	U2	U2
G_02232-01	22510104		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	96	-	-	1.40	1.5	1	U2	U2
G_02232-09	22510110		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	96	-	-	1.30	1.5	1	U2	U2
G_03232-01	22510129		Wire	Cu	0.88	PE	2.95	Cu	3.60	95	-	-	3.90	2.5	1	U7	U7

b) UL recognised (see UL types page 117)

Standard RF coax cables

single screen

50 Ω

H+S type	Item no.	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
G_0321201	22610095	Strand-19	CuSn	0.90	PE	2.95	95	-	-	PUR ¹⁾	4.95	black	2.5	1	U7	U7
RG_58_C/U	22510015	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC2(LM)	4.95	black	2.5	1	U7	U7
RG_58_C/U-01	22510350	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC2(LM)	4.95	black	2.5	1	U7	U7
RG_58_C/U-05	22511239	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC2(LM)	4.95	blue	2.5	1	U7	U7
RG_58_C/U-06	22510017	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC	4.95	black	2.5	1	U7	U7
RG_58_C/U-07	22511244	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC2(LM)	4.95	grey	2.5	1	U7	U7
RG_58_C/U-22	22511607	Strand-19	CuSn	0.90	PE	2.95	96	-	-	PVC2(LM)	4.95	red	2.5	1	U7	U7
RG_58_C/U-62 ^{b)}	23024284	Strand-19	CuAg	0.90	PE	2.95	96	-	-	PVC(UL)	4.95	black	2.5	1	U7	U7
G_03232	22510128	Strand-7	Cu	0.95	PE	2.95	95	-	-	PVC	5.00	black	2.5	1	U7	U7
G_03262-1	22512108	Strand-7	CuSn	0.90	PE	2.95	96	-	-	LSFH ¹⁾	4.95	black	2.5	1	U7	U7
G_03272	22511434	Strand-7	Cu	0.95	PE	2.95	95	-	-	PE ¹⁾	5.00	black	2.5	2	U7	U7
G_05232	22510176	Strand-7	Cu	1.50	PE	4.80	92	-	-	PVC2(LM)	7.40	black	3.5	1	-	U19
RG_213_U	22510052	Strand-7	Cu	2.25	PE	7.25	96	-	-	PVC2(LM)	10.30	black	5.0	1	U29	U28
RG_213_U-01 ^{a)}	22510053	Strand-7	Cu	2.25	PE	7.24	96	-	-	PVC2(LM)	10.30	black	5.0	1	U29	U28
RG_213_U-04	22510055	Strand-7	Cu	2.25	PE	7.25	96	-	-	PVC	10.30	black	5.0	1	U29	U28
G_07262	22511836	Strand-7	Cu	2.25	PE	7.28	96	-	-	LSFH ¹⁾	10.30	black	5.0	1	U29	U28
RG_218_U	22510066	Wire	Cu	5.00	PE	17.30	96	-	-	PVC2(LM)	22.10	black	11.0	1	-	U44

* for suitable connectors

a) precision type: impedance 50 ±1 Ω

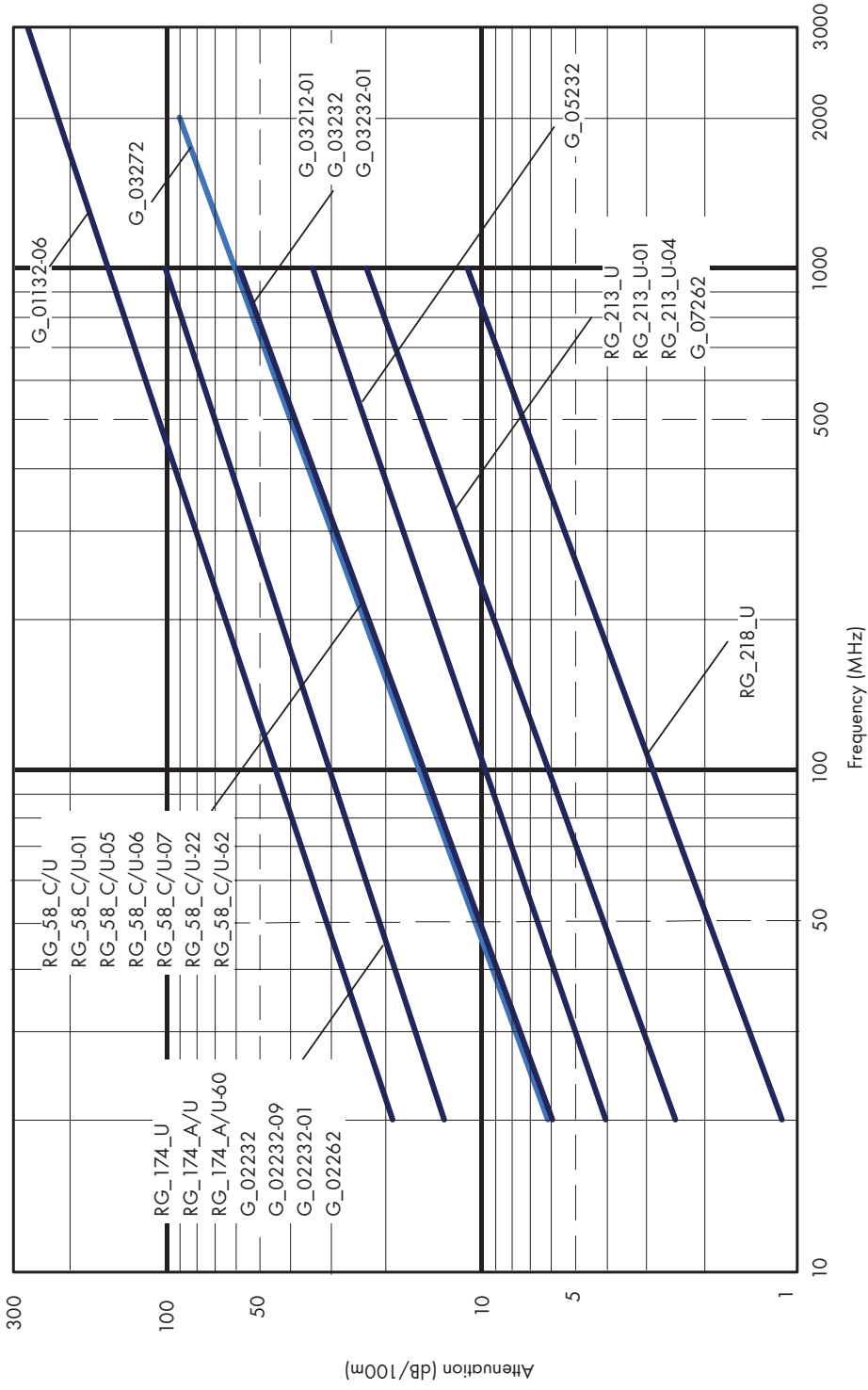
b) UL recognised (see UL types page 117)

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Standard RF coax cables, single screen, 50 Ω

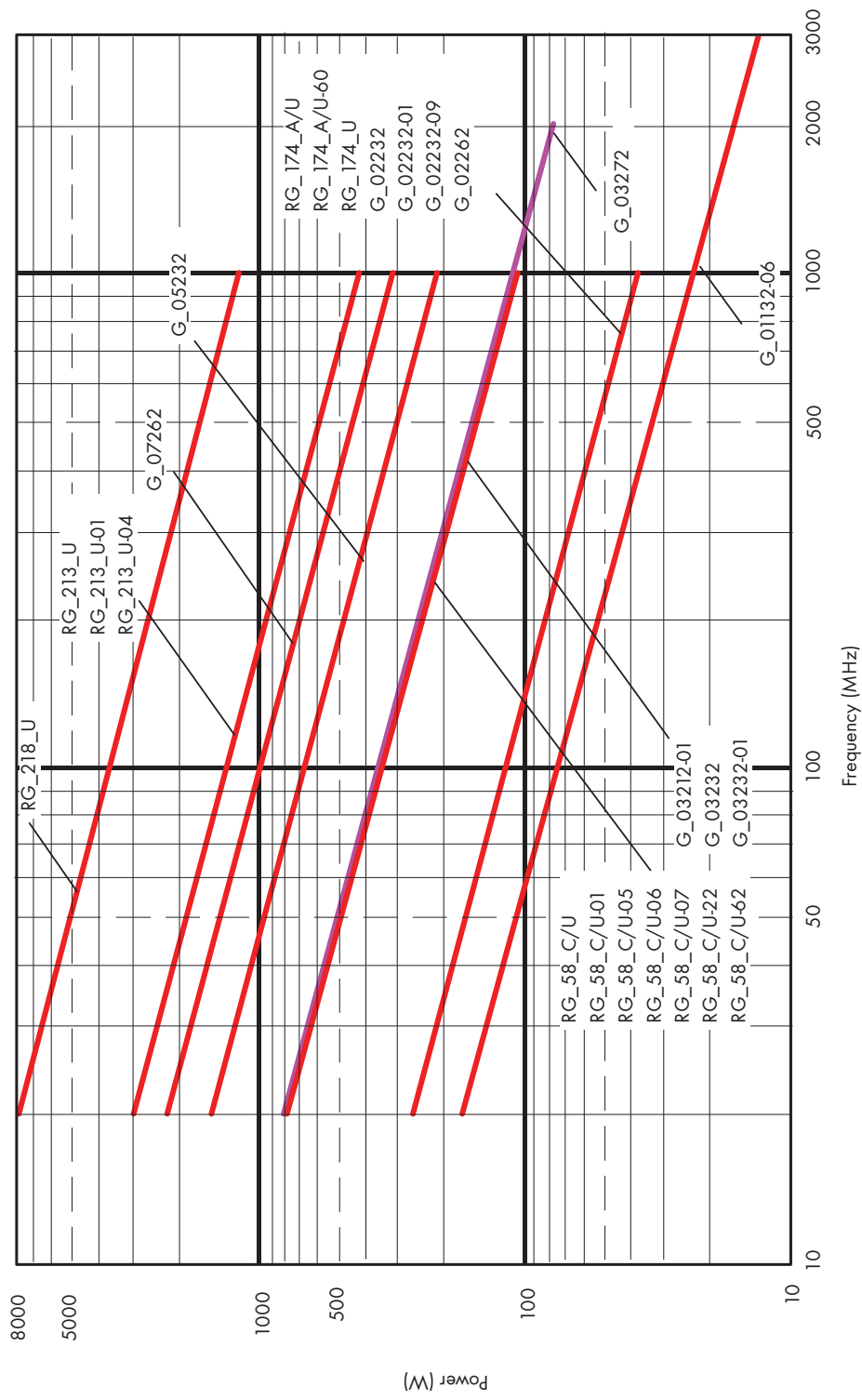
typical values at +20 °C ambient temperature



Power

Standard RF coax cables, single screen, 50 Ω

typical values at +40 °C ambient temperature



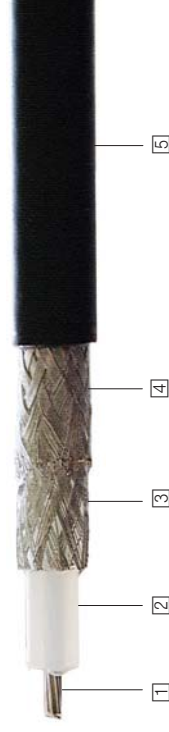
Standard RF coax cables

double screen

50 Ω

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range G and RG cables	PVC, PVC (UL), PVC2 (LM): -25 °C to +85 °C
Temperature range G and RG cables	LSFH, PUR, RADOX: -40 °C to +85 °C
Screening effectiveness	≥ 80 dB up to 6 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m		Operating voltage kV		Max. operation frequency		Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %	Mat.	Dim. mm	Colour	kg/100 m	Operating voltage kV	Max. operation frequency	crimp	clamp
G_02212_D-02	22511668	9 and 10	Strand-7	CuAg	0.48	PE	1.50	CuAg	2.00	95	2.50	93	PUR ¹⁾	3.10	orange	1.80	1.50	6	U4	U4
G_02232_D	22510112		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	96	2.50	93	PVC2(LM)	3.10	black	2.10	1.50	6	U4	U4
G_02232_D-60a)	22511746		Strand-7	Cu	0.49	PE	1.50	CuAg	1.95	97	2.05	100	PVC(UL)	3.10	grey	2.10	1.50	6	U4	U4
G_02262_BD ^{b)}	22512069		Strand-7	Cu	0.49	PE	1.50	CuAg	1.95	97	2.05	100	LSFH ¹⁾	3.10	black	2.10	0.45	6	U4	U4
G_03212_D-01	22512305		Strand-19	CuSn	0.90	PE	2.95	CuSn	3.60	96	4.20	94	PUR ¹⁾	5.40	black	5.30	2.50	6	U9	U10
G_03262_D	22511812		Wire	CuAg	0.88	PE	2.95	CuAg	3.60	96	4.20	94	LSFH ¹⁾	5.40	black	5.50	2.50	6	U9	U10
G_03262_D-01	22511782		Strand-19	CuSn	0.90	PE	2.95	CuSn	3.60	94	4.25	93	LSFH ¹⁾	5.40	black	5.50	2.50	6	U9	U10
RG_223_U	22510072		Wire	CuAg	0.88	PE	2.95	CuAg	3.60	96	4.20	94	PVC2(LM)	5.40	black	5.50	2.50	6	U9	U10

a) UL recognised (see UL types page 117), with 3rd additional µ-metal magnetic shield

b) with 3rd additional µ-metal magnetic shield

Standard RF coax cables

double screen

50 Ω

H+S type	Item no.	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
RG_223_U04	22510174	Wire	CuAg	0.88	PE	2.95	96	4.20	94	PVC2(LM)	5.40	grey	2.5	6	U9	U10
RG_223_U60b)	22511565	Wire	CuAg	0.88	PE	2.95	96	4.20	94	PVC	5.40	grey	2.5	6	U9	U10
G_03232_D-01	22510134	Strand-19	CuSn	0.90	PE	2.95	95	4.25	93	PVC	5.35	black	2.5	6	U9	U10
RG_223_U01	22510073	Wire	CuAg	0.88	PE	3.03	96	4.20	94	PVC2(LM)	5.40	black	2.5	6	U9	U10
RG_223_U02	22610106	Strand-19	CuAg	0.90	PE	2.93	96	4.20	94	PVC2(LM)	5.30	black	2.5	6	U9	U10
RG_212_U	22510051	Wire	CuAg	1.40	PE	4.70	94	6.20	94	PVC2(LM)	8.45	black	3.5	5	-	U20
G_05232_D	22512293	Strand-7	Cu	1.50	PE	4.80	93	6.20	93	PVC2(LM)	7.80	black	3.5	6	-	-
RG_214_U	22510057	Strand-7	CuAg	2.25	PE	7.28	93	8.70	95	PVC2(LM)	10.80	black	5.0	6	U32	U33
RG_214_U01	22510058	Strand-7	CuAg	2.25	PE	7.28	96	8.70	93	PVC2(LM)	10.80	black	5.0	6	U32	U33
RG_214_U04	22610050	Strand-7	CuAg	2.25	PE	7.28	96	8.70	93	PVC2(LM)	10.80	grey	5.0	6	U32	U33
RG_214_U60b)	22511566	Strand-7	CuAg	2.25	PE	7.28	93	8.70	95	PVC	10.80	black	5.0	6	U32	U33
RG_214_HiFlex	22512156	Strand-19	CuAg	2.25	PE	7.30	93	8.70	95	PVC2(LM)	10.80	black	5.0	6	U32	U33
G_07232_D-08	22511272	Strand-7	CuAg	2.25	PE	7.28	93	8.70	95	PVC2(LM)	10.80	black	5.0	6	U32	U33
G_07262_D	22512085	Strand-7	CuAg	2.25	PE	7.28	93	8.70	95	LSFH ¹⁾	10.80	black	5.0	6	U32	U33
RG_217_U	22510064	Wire	Cu	2.69	PE	9.33	96	11.20	94	PVC2(LM)	13.85	black	6.0	6	-	U38

* for suitable connectors

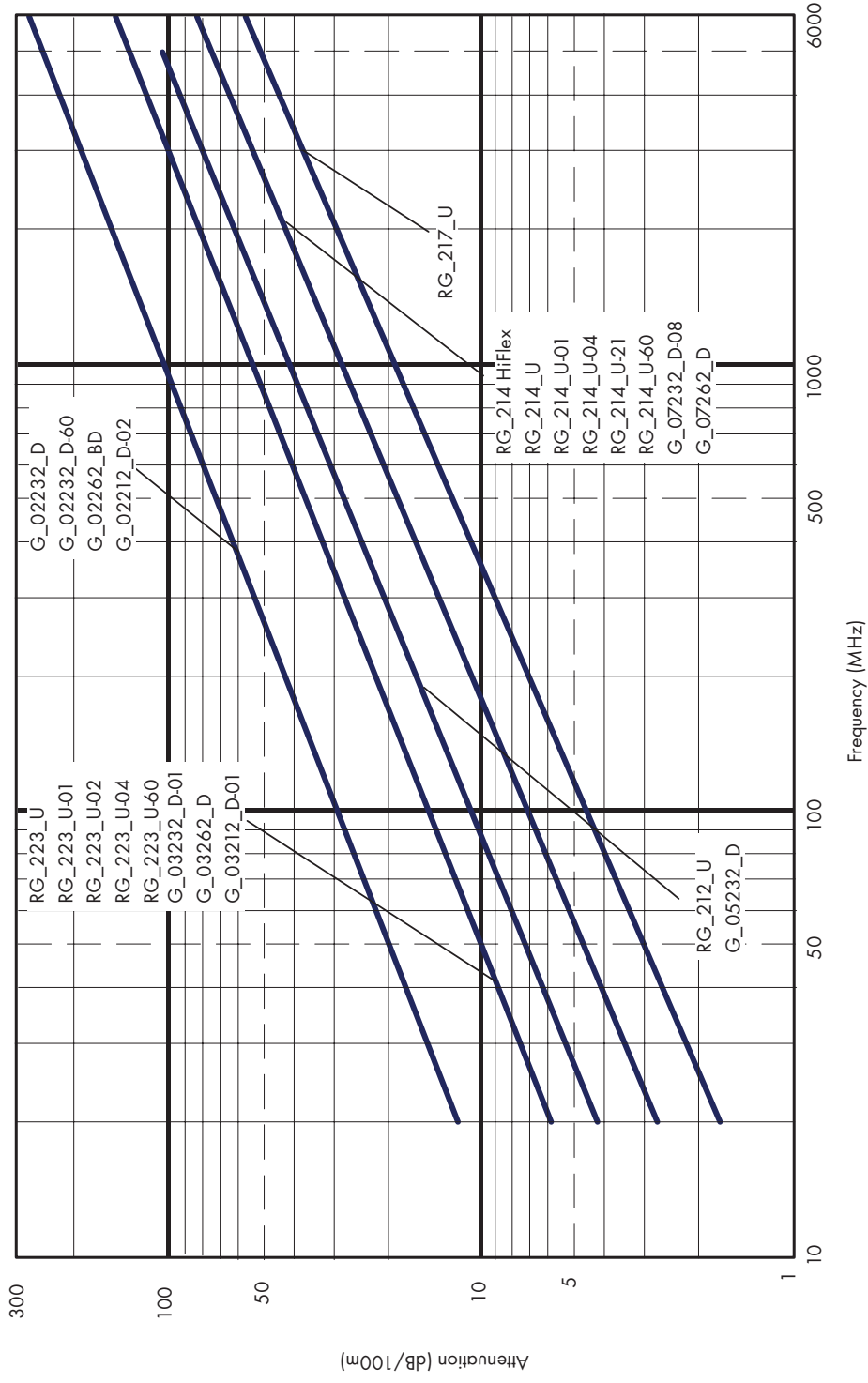
b) UL recognised (see UL types page 117)

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Standard RF coax cables, double screen, 50 Ω

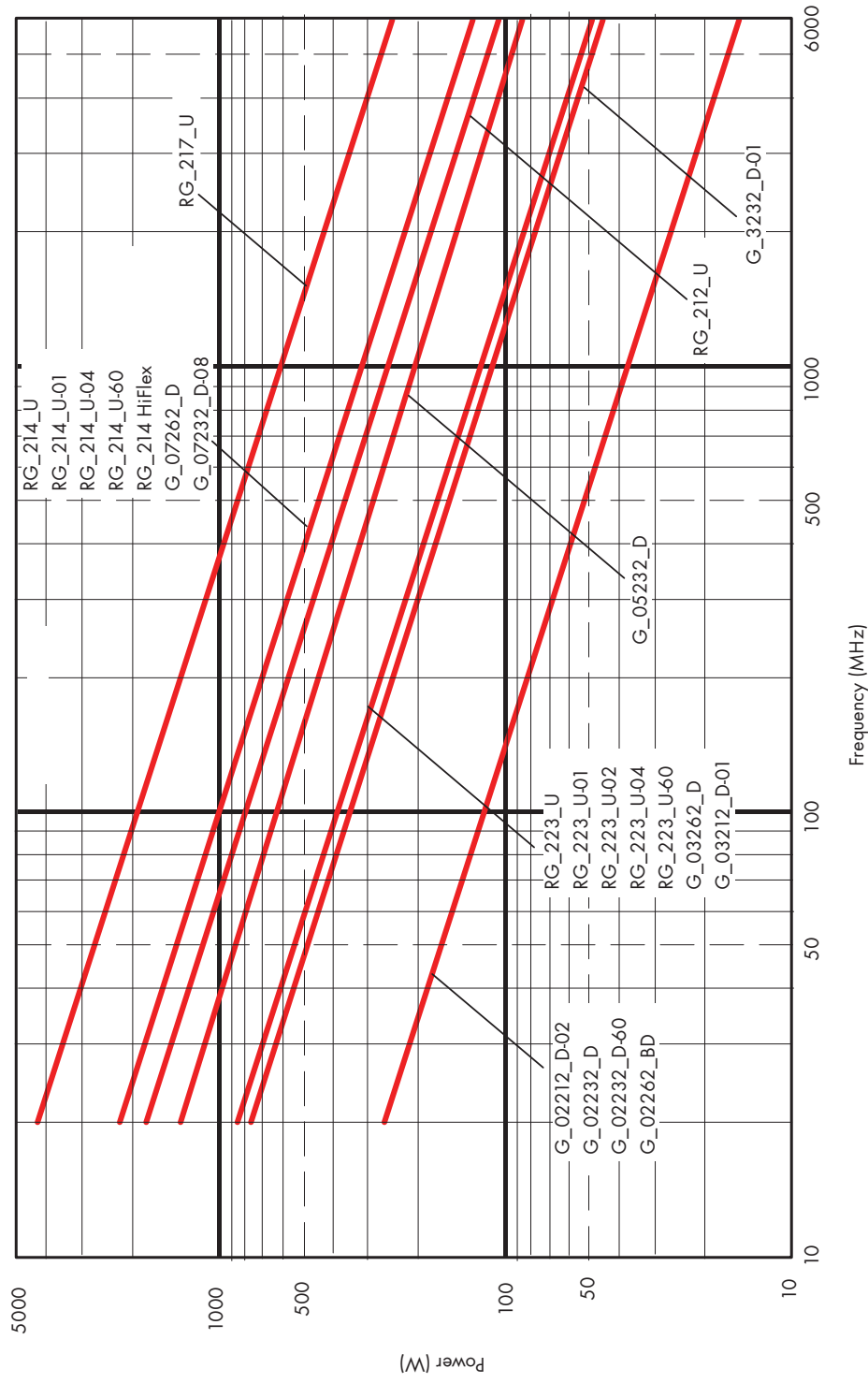
typical values at +20 °C ambient temperature



Power

Standard RF coax cables, double screen, 50 Ω

typical values at +40 °C ambient temperature



Standard RF coax cables

single screen

75 Ω

Impedance	75 Ω
Capacitance	67 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	> 10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range G and RG cables	PVC, PVC (UL), PVC2(LM): -25 °C bis +85 °C
Temperature range G and RG cables	LSFH, PUR, RADOX: -40 °C bis +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

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H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim.	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
G_02223	22510102	13 and 14	Wire	SiCu	0.24	PE	1.50	91	-	91	PA	2.30	black	0.90	1	-	-
G_02233-01	22510114		Wire	SiCu	0.24	PE	1.50	96	-	96	PVC	2.80	black	1.30	1	-	U5
G_02233	22510113		Wire	SiCu	0.24	PE	1.50	96	-	96	PVC	2.80	grey	1.30	1	-	U5
G_02133-03	22511422		Wire	Cu	0.40	PE	2.40	94	-	94	PVC	4.00	grey	2.60	1	-	-
G_03233	22510135		Strand-7	Cu	0.49	PE	2.95	95	-	95	PVC	5.00	black	3.90	1	U12	U12
G_03233-60d)	22511927		Strand-7	Cu	0.49	PE	2.95	95	-	95	PVC(UL)	5.00	black	3.90	2.5	U12	U12
G_03263	22512297		Strand-7	Cu	0.49	PE	2.95	95	-	95	LSFH¹⁾	5.00	black	3.90	1	U12	U12
RG_59_B/U	22510368		Wire	SiCu	0.58	PE	3.64	93	-	93	PVC2(LM)	6.10	black	5.00	1	U16	U15

d) UL recognised (see UL types page 117)

Standard RF coax cables

single screen

75 Ω

H+S type	Item no.	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾	Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim.	Cover %	Mat.	Dim. mm	Colours		crimp	clamp
RG_59_B/U-02 ^{b)}	22510022	Wire	Cu	0.58	PE	3.64	93	-	93	PVC2(LM)	6.10	black	3	U16	U15
RG_59_B/U-20	22511030	Wire	SiCu	0.58	PE	3.64	93	-	93	PVC	6.10	grey	3	U16	U15
RG_59_B/U-34	22511097	Wire	SiCu	0.58	PE	3.64	93	-	93	PVC	6.10	green	3	U16	U15
RG_59_B/U-36	22511099	Wire	SiCu	0.58	PE	3.64	93	-	93	PVC	6.10	orange	3	U16	U15
RG_59_B/U-38	22511101	Wire	SiCu	0.58	PE	3.64	93	-	93	PVC	6.10	blue	3	U16	U15
RG_59_B/U-40	22511193	Wire	SiCu	0.58	PE	3.64	93	-	93	PVC	6.10	red	3	U16	U15
G_04263-01	22511501	Wire	SiCu	0.58	PE	3.64	93	-	93	LSFH ¹⁾	6.10	green	3	U16	U15
G_04263-03	22511867	Wire	SiCu	0.58	PE	3.64	93	-	93	LSFH ¹⁾	6.10	black	3	U16	U15
G_04273	22511437	Wire	SiCu	0.58	PE	3.64	92	-	92	PE ¹⁾	6.10	black	3	U16	U15
G_04233-02	22510165	Strand-7	Cu	0.64	PE	3.75	92	-	92	PVC	6.10	black	3	U16	U15
RG_11_A/U	22510004	Strand-7	CuSn	1.20	PE	7.25	96	-	96	PVC2(LM)	10.30	black	5	U34	U35
RG_11_A/U-08	22510373	Strand-7	CuSn	1.20	PE	7.25	96	-	96	PVC	10.30	black	5	U34	U35
RG_12_A/U ^{a)}	22510007	Strand-7	CuSn	1.20	PE	7.25	96	-	96	PVC2(LM)	10.30	black	5	-	U35

a) equal to RG_11_A/U plus steel armour Ø 11.80 mm

b) precision type: impedance 75 Ω ± 0.75

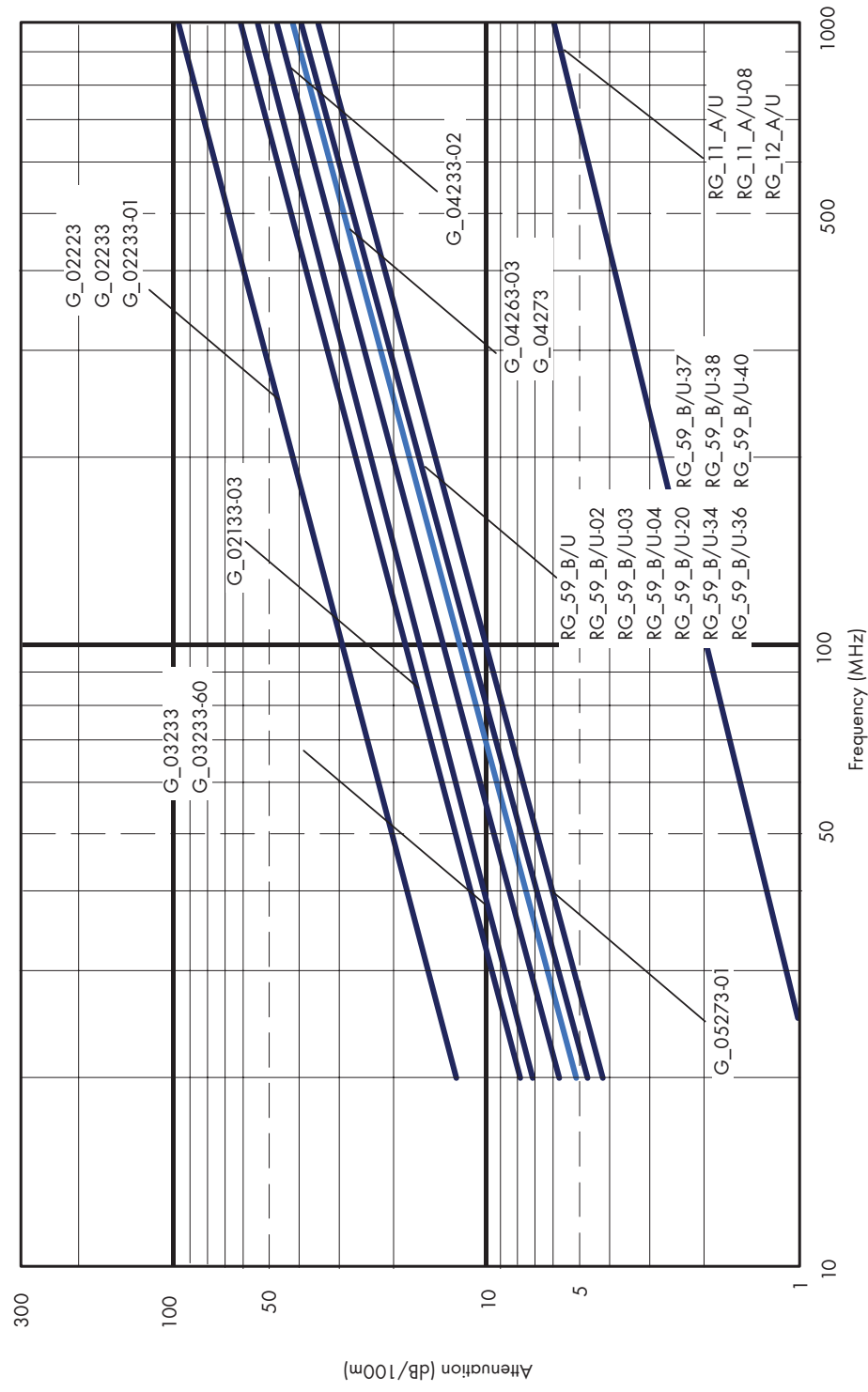
1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

* for suitable connectors

Attenuation

Standard RF coax cables, single screen, 75 Ω

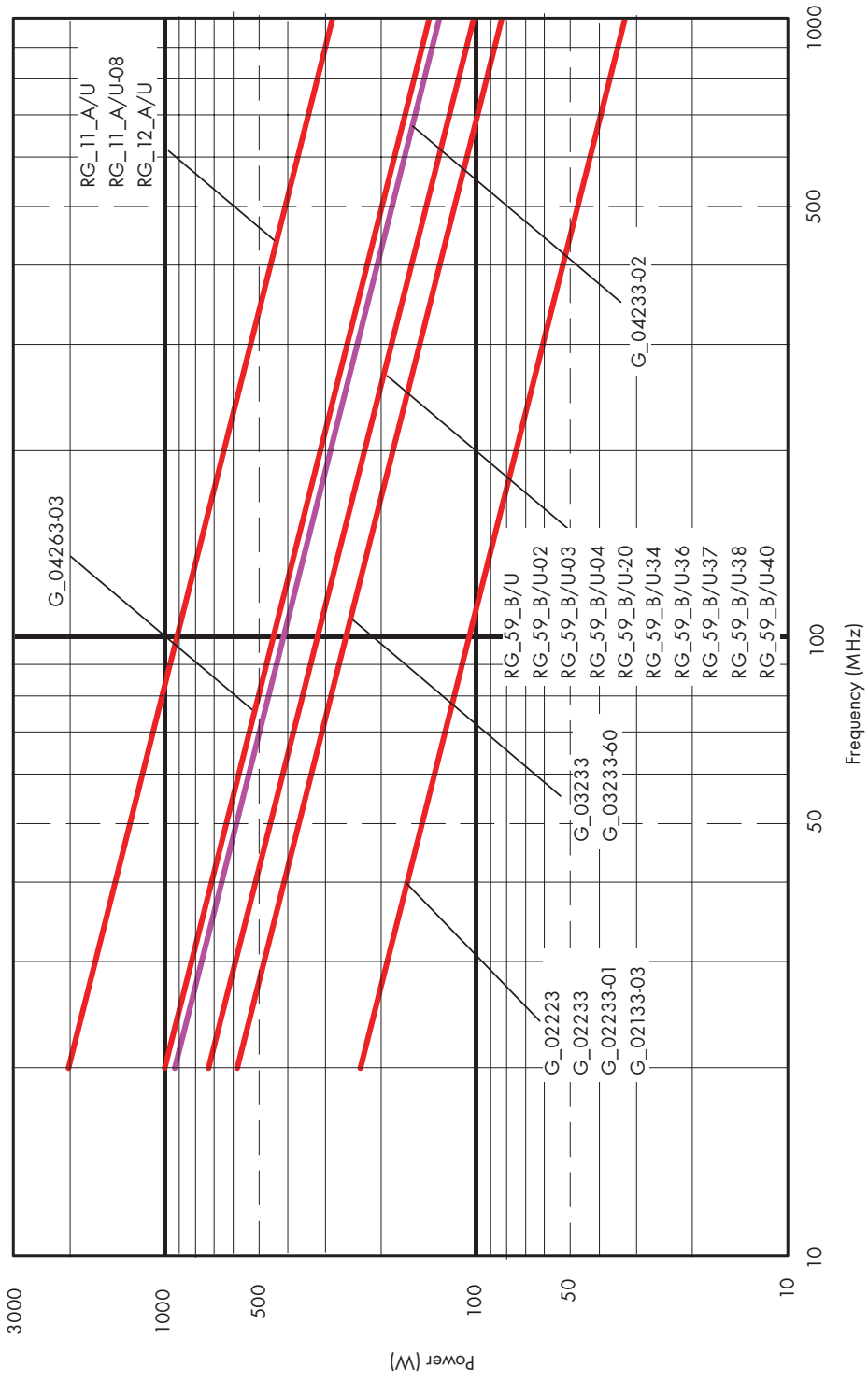
typical values at +20 °C ambient temperature



Power

Standard RF coax cables, single screen, 75 Ω

typical values at +40 °C ambient temperature



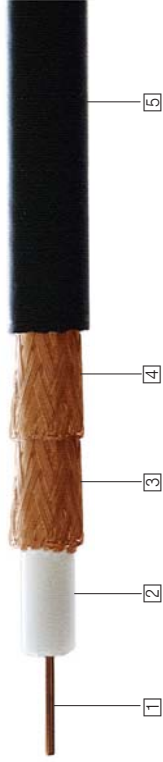
Standard RF coax cables

double screen

75 Ω

Impedance	75 Ω
Capacitance	67 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range G and RG cables	PVC, PVC (UL), PVC2(LM): -25 °C bis +85 °C
Temperature range G and RG cables	LSFH, PE, PUR, RADOX: -40 °C bis +85 °C
Screening effectiveness	≥ 80 dB up to 1 GHz

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H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm				crimp	clamp
G_02133_D-05a)	225111921	17 and 18	Wire	Cu	0.32	PE	1.95	CuSn	2.40	91	PVC(UL)	3.60	2.40	1.75	1.75	-	-
G_03233_Db)	22510140		Wire	CuAg	0.47	PE	2.95	CuAg	3.60	99	PVC	5.35	6.00	2.5	2	U14	U14
G_03213_D	22510954		Strand-7	Cu	0.49	PE	2.95	CuSn	3.60	94	PUR ¹⁾	5.35	5.00	2.5	2	U14	U14
G_04133_D	22610079		Wire	Cu	0.58	PE	3.64	Cu	4.40	92	PVC	6.70	8.10	3	2	U18	U18
G_04133_D-02	22511285		Wire	Cu	0.58	PE	3.64	Cu	4.40	92	PVC	6.70	8.10	3	2	U18	U18
G_04133_D-04	22511336		Wire	Cu	0.58	PE	3.64	Cu	4.40	92	PVC	6.70	8.10	3	2	U18	U18
G_04233_Dd)	22510168		Wire	SiCu	0.58	PE	3.64	CuAg	4.45	97	PVC	6.70	8.30	3	2	U18	U18

a) construction according to BT 3002 specification

b) construction according to 2 S PTT6012 specification

c) construction according to 2 S PTT 6010 specification

H+S type	Item no.	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim.	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
G_04233_D-01	22510169	Strand-7	Cu	0.64	PE	3.75	93	5.00	92	PVC	6.70	black	3	2	-	U18
G_04233_D-02	22510170	Strand-7	Cu	0.64	PE	3.75	93	5.00	92	PVC	6.70	black	3	2	-	U18
G_04233_D-10 ^{a)}	22510434	Wire	SiCu	0.58	PE	3.64	97	4.60	100	PVC2(LM)	6.50	black	3	2	U18	U18
G_04233_D-28	22510600	Wire	SiCu	0.58	PE	3.64	97	5.20	97	PVC	6.70	black	3	2	U18	U18
G_04233_D-58	22511875	Wire	SiCu	0.58	PE	3.64	97	5.30	97	PVC	6.70	grey	3	3	U18	U18
G_04233_D-95	22512296	Wire	SiCu	0.58	PE	3.64	97	5.20	97	PVC	6.70	green	3	3	U18	U18
G_04273_D-02	22513183	Strand-7	Cu	0.64	PE	3.75	93	5.00	92	RADOX ¹⁾	6.70	black	3	2	U18	U18
G_05133_D ^{b)}	22610131	Wire	Cu	0.76	PE	4.76	91	6.30	92	PVC	8.00	black	3.5	2	-	U23
G_07273_D	22510365	Strand-7	CuSn	1.20	PE	7.25	93	8.70	94	PE ¹⁾	8.70	black	5	5	U36	U37
RG_216_U	22510062	Strand-7	SiSn	1.20	PE	7.25	95	8.70	93	PVC2(LM)	10.80	black	5	2	U36	U37
RG_216_U-01 Precision ±1.5Ω	22511281	Strand-7	SiSn	1.20	PE	7.25	95	8.70	93	PVC2(LM)	10.80	black	5	2	U36	U37

* for suitable connectors

a) with 3rd additional µ-metal magnetic shield

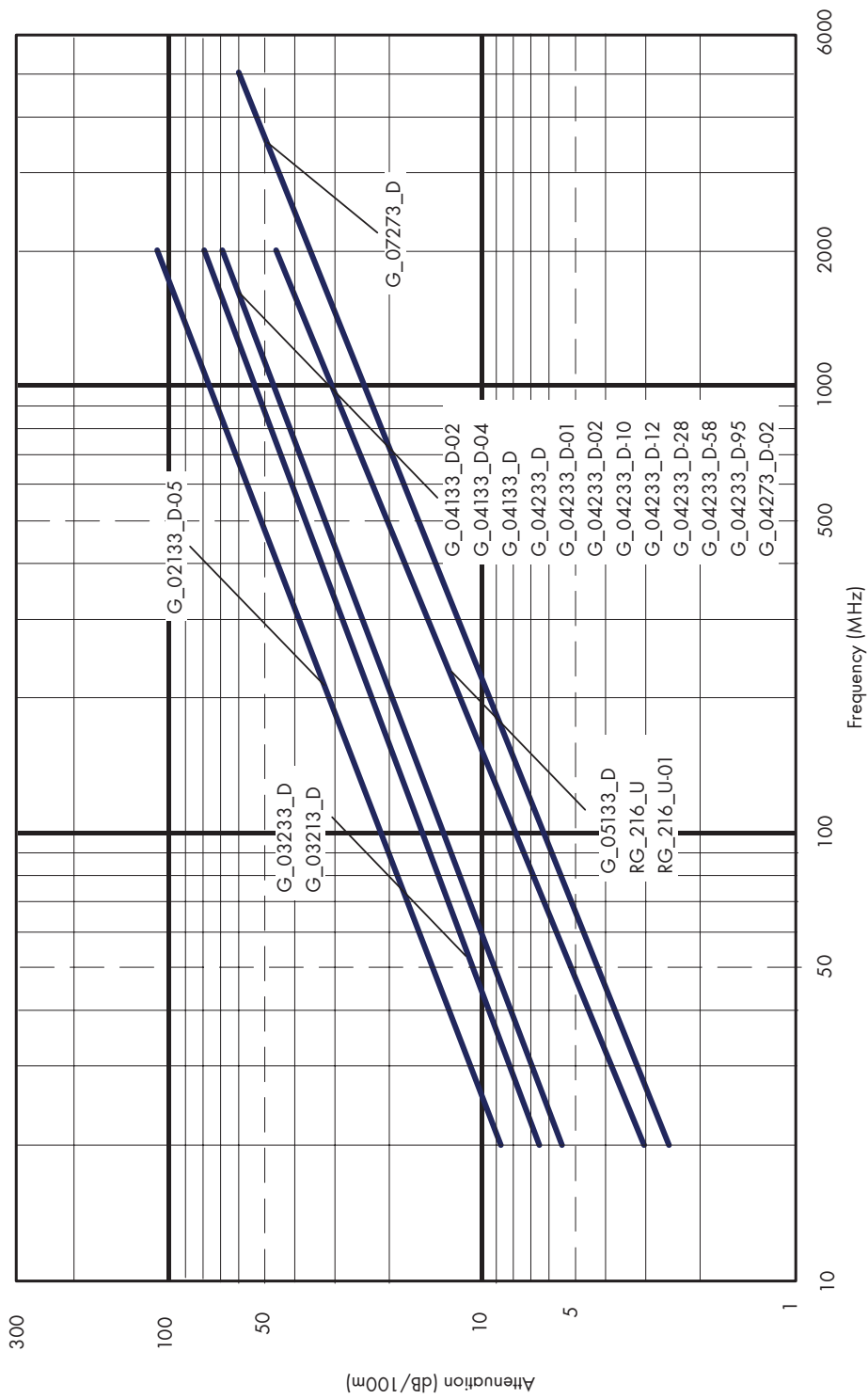
b) precision type: impedance 75 Ω ± 0.75

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Standard RF coax cables, double screen, 75 Ω

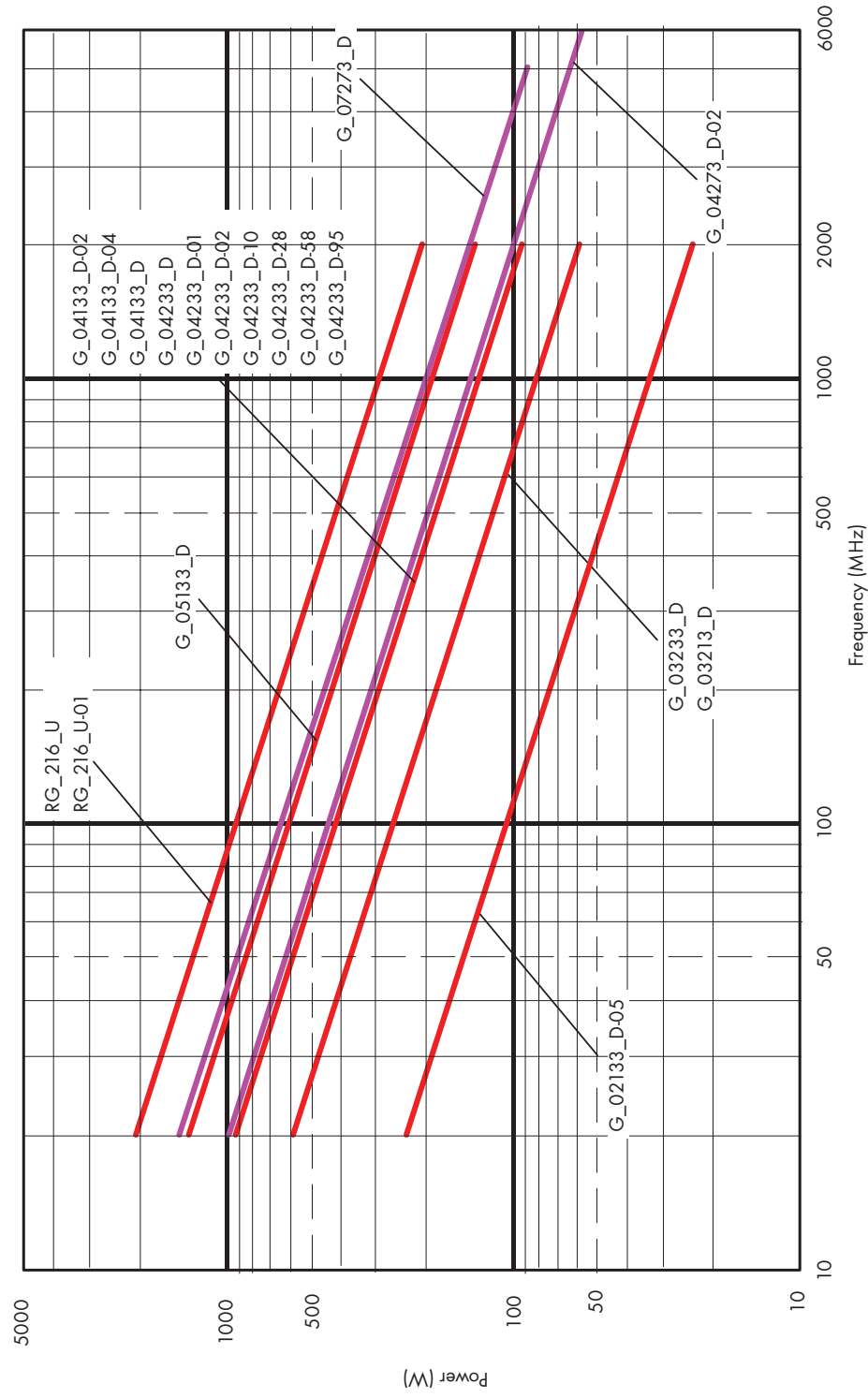
typical values at +20 °C ambient temperature



Power

Standard RF coax cables, double screen, 75 Ω

typical values at +40 °C ambient temperature





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components

Low loss RF coax cables

single screen

50 Ω

Impedance	50 Ω
Capacitance	82 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range of S cables	PVC, PVC(U), PVC2(LM): -25 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.

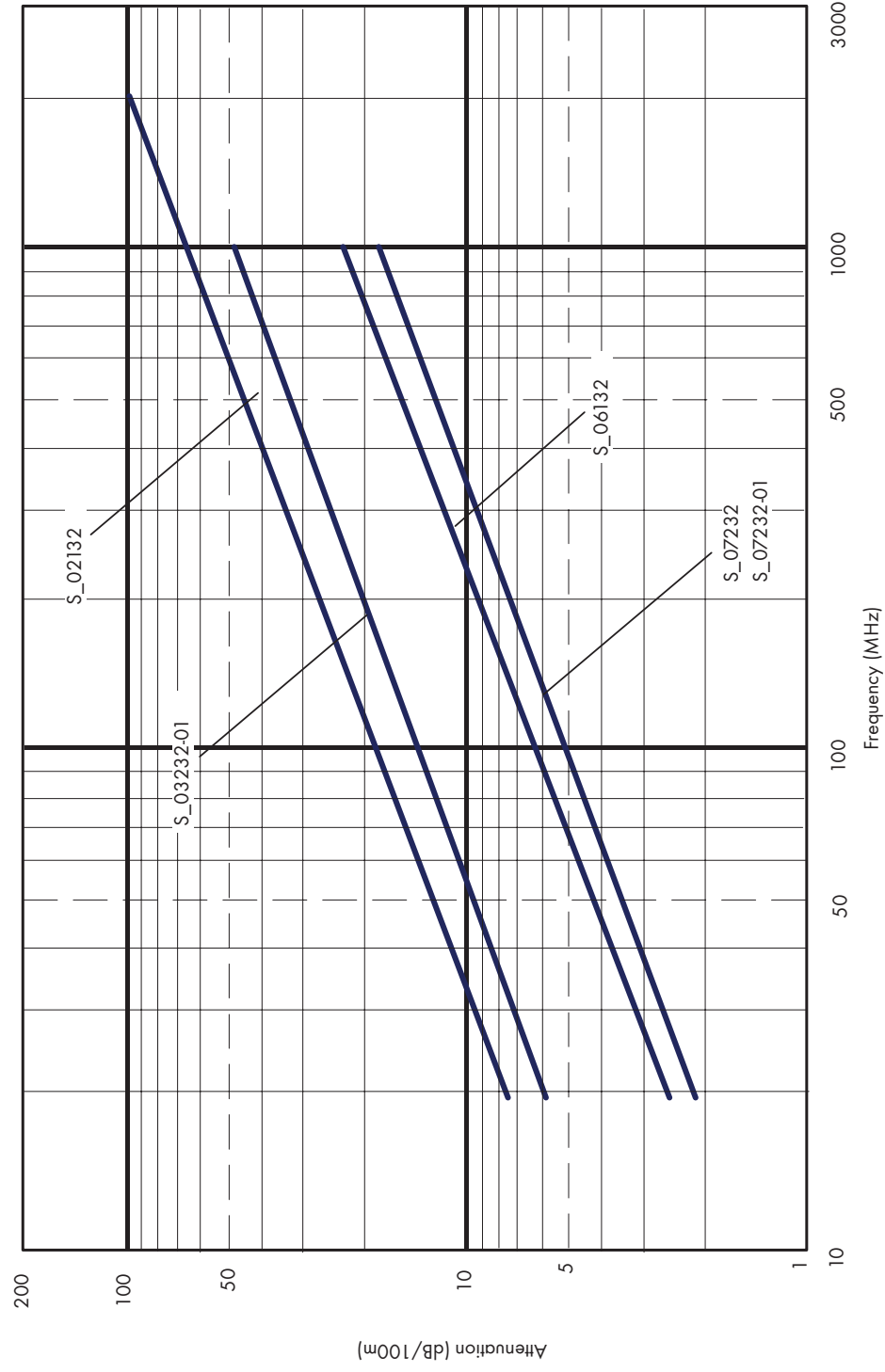


H+S type	Item no.	Center conductor [1]			Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m		Operating voltage kV		Max. operation frequency		Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim.	Mat.	Dim. mm	Colour	kg/100 m	kV	operation frequency	crimp	clamp		
S_02132	22511624	Strand-19	CuSn	0.90	SPE	2.30	CuSn	2.90	96	-	PVC2(LM)	4.50	black	2.80	0.35	2	S7	-	* for suitable connectors	U31
S_03232-01	22610021	Strand-7	Cu	1.20	SPE	2.95	Cu	3.60	95	-	PVC2(LM)	5.00	black	3.80	0.45	1	U8	-		
S_06132	22511628	Strand-7	Cu	2.25	SPE	5.85	Cu	6.55	94	-	PVC2(LM)	8.15	black	9.20	0.75	1	-	-		
S_07232	22510389	Wire	Cu	2.68	SPE	7.29	Cu	8.15	95	-	PVC2(LM)	10.30	black	15.30	1.05	1	U30	-		
S_07232-01	22510410	Strand-7	Cu	2.85	SPE	7.42	Cu	8.15	95	-	PVC2(LM)	10.30	black	14.90	1.05	1	-	-		

Attenuation

Low loss RF coax cables, single screen, 50 Ω

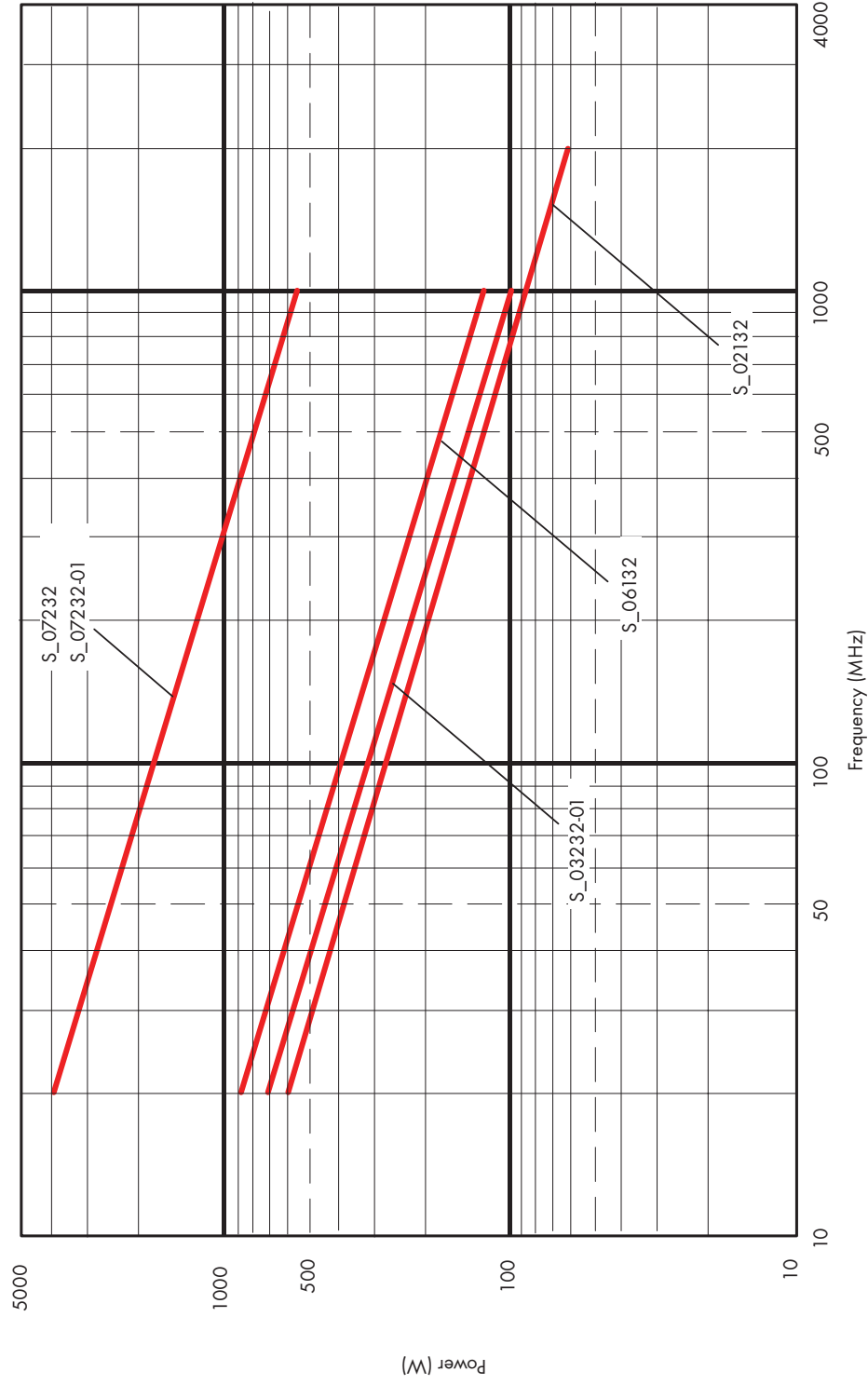
typical values at +20 °C ambient temperature



Power

Low loss RF coax cables, single screen, 50 Ω

typical values at +40 °C ambient temperature



Low loss RF coax cables

double screen

50 Ω

Impedance	50 Ω
Capacitance	82 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø/with foil 10 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø/with foil 20 x Ø jacket [5]
Temperature range of S cables	PVC, PVC(U), PVC2(LM): -25 °C to +85 °C LSFH, PE, PUR, HYTREL, RADOX: -40 °C to +85 °C
Screening effectiveness	≥ 80 dB up to 6 GHz ≥ 90 dB for all B types (foil)

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Mat.				crimp	clamp
S_01112_D	22512129	Strand-7	Cu	0.54	SPE	1.37	CuSn	1.70	92	2.20	95	1.30	0.20	6	-	-
S_02162_B	22512310	Strand-7	Cu	0.80	SPE	2.10	AlPES	2.15	100	2.70	75	2.50	0.25	6	S9	-
S_02132_D	22511625	Wire	CuAg	0.88	SPE	2.39	CuAg	2.95	92	3.60	96	4.50	0.35	6	S8	-
S_02132_D-60 ^{a)}	84010316	Wire	CuAg	0.88	SPE	2.42	CuAg	2.95	92	3.60	96	4.50	0.35	6	S8	-
S_02112_D	22511910	Strand-19	CuSn	0.90	SPE	2.39	Cu	2.90	96	3.50	84	3.70	0.35	6	S8	-
S_03232_B-60 ^{a)}	84018244	Wire	Cu	1.065	SPE	2.96	AlPES	3.05	100	3.80	90	3.17	0.40	5	-	-
S_03212_D-02	23005520	Wire	CuAg	1.10	SPE	2.96	CuAg	3.60	95	4.20	93	5.43	0.45	6	-	-
S_03232_B-04 ^{b)}	22512116	Wire	CuAg	1.10	SPE	2.96	AlPES	3.20	100	3.80	90	3.90	0.40	5	-	-

a) UL recognised (see UL types page 117)

b) fulfills UL 1581 1080 VW-1 flame propagation test

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Low loss RF coax cables

double screen

50 Ω

H+S type	Item no.	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
S_03262_B-60 ^{a)}	84010497	Wire	Cu	1.06	SPE	2.96	100	3.80	90	LSFH ¹⁾	4.50	black	0.40	5	-	-
SX_03232_B-60 ^{a)}	84018307	Wire	Cu	1.065	SPEX	2.96	100	3.80	90	PVC[UL]	4.50	black	0.40	5	-	-
SX_03272_B-60 ^{a)}	84010513	Wire	Cu	1.065	SPEX	2.96	100	3.80	90	RADOX ¹⁾	4.50	black	0.40	5	-	-
S_04172_D	22511598	Wire	CuAg	1.40	SPE	3.78	96	4.70	94	PE ¹⁾	5.70	blue	0.55	5	S16	-
S_04262_D	22511966	Wire	CuAg	1.40	SPE	3.78	96	4.70	94	LSFH ¹⁾	5.70	black	0.50	6	S16	-
SX_04172_B-60 ^{a)}	84026748	Wire	CuAg	1.40	SPEX	3.80		4.53	86	RADOX ¹⁾	5.50	black	0.70	6	-	-
S_04162_B-60	84023780	Wire	Cu	1.40	SPE	3.80	100	4.53	86	LSFH ¹⁾	5.50	black	1.00	6	-	-
S_04212_B	22511855	Wire	CuAg	1.40	SPE	3.82	100	4.48	87	PUR ¹⁾	5.30	black	0.50	18	-	-
S_04262_B-01	84000918	Wire	CuAg	1.40	SPE	3.82	100	4.48	87	LSFH ¹⁾	5.50	black	0.50	18	-	-
S_04272_B	22511622	Wire	CuAg	1.40	SPE	3.82	100	4.48	86	PE ¹⁾	5.50	blue	0.50	18	-	-
S_04262_D-02	22512107	Strand-19	CuAg	1.43	SPE	3.77	92	5.25	77	LSFH ¹⁾	6.50	black	0.50	6	-	-
S_06162_D-02	22511923	Wire	CuAg	2.05	SPE	5.60	93	6.75	85	LSFH ¹⁾	7.90	black	0.75	6	S24	-
S_06132_D-10	22511629	Strand-7	CuAg	2.25	SPE	5.80	94	7.25	96	PVC	8.95	black	0.75	4	S26	-
S_07272_B-05	23029079	Wire	Cu	2.68	SPE	7.29	100	8.10	88	PE ¹⁾	10.20	black	1.05	5	U30	U31
S_07212_BD	22511864	Strand-7	CuAg	2.82	SPE	7.38	96	8.10	100	PUR ¹⁾	10.80	black	1.05	3	S32	-
S_07262_BD	22511767	Strand-7	CuAg	2.82	SPE	7.38	96	8.10	100	LSFH ¹⁾	10.80	black	1.05	3	S32	-
S_10162_B-11	23002145	Wire	AlCu	3.80	SPE	9.90	100	10.80	80	LSFH ¹⁾	12.90	black	1.70	7.5	S39	-
S_10172_B-11	22512320	Wire	AlCu	3.80	SPE	9.90	100	10.80	80	PE ¹⁾	12.90	black	1.50	7.5	S39	-
S_12272-04	22510390	Wire	AlCu	4.20	SPE	11.50	100	12.50	60	PE ¹⁾	15.00	black	1.70	10	-	U40

a) UL recognised (see UL types page 117)

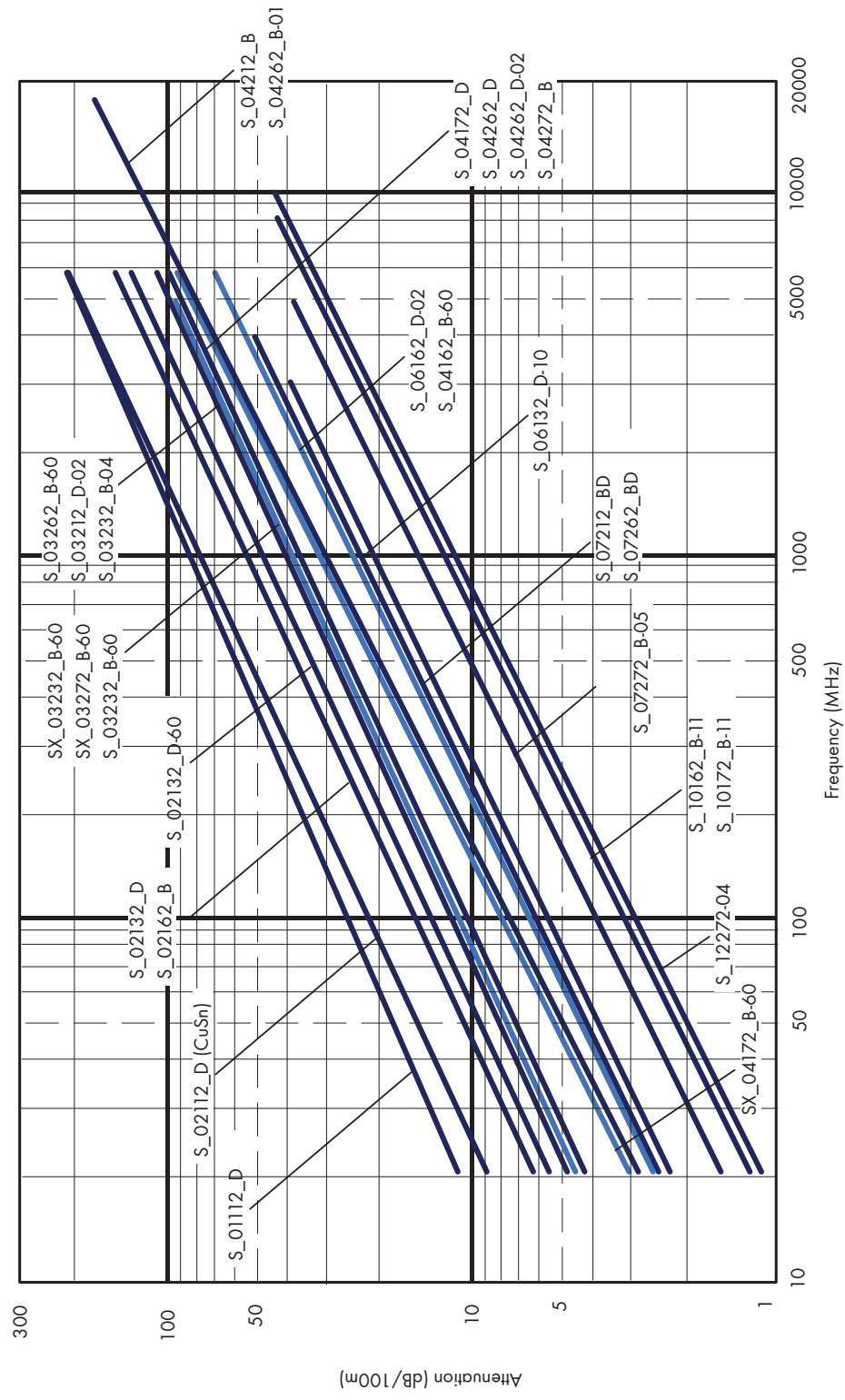
1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

* for suitable connectors

Attenuation

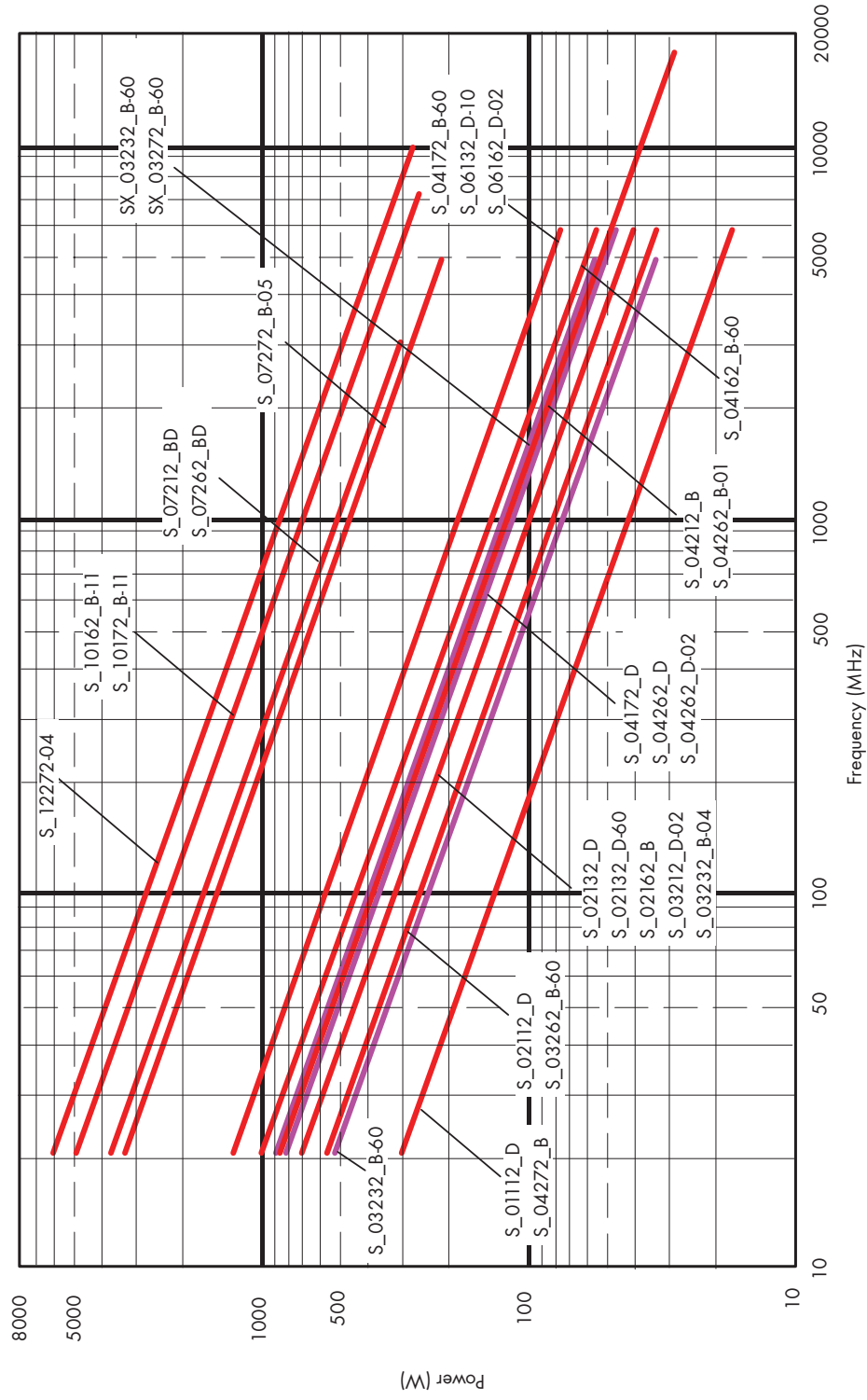
Low loss RF coax cables, double screen, 50 Ω

typical values at +20 °C ambient temperature



Power

Low loss RF coax cables, double screen, 50 Ω
typical values at +40 °C ambient temperature



Low loss RF coax cables

single screen

75 Ω

Impedance	75 Ω
Capacitance	54 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range of S cables	PVC, PVC(U), PVC2(LM): -25 °C to +85 °C LSFH, PE: -40 °C to +85 °C
Screening effectiveness	≥40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group				
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp		
S_02223	22511273	29 and 30	Wire	Cu	0.35	SPE	1.55	Cu	2.00	94	-	PVC	2.55	blue	1.10	0.20	1	-	U5	
	22511274		Wire	Cu	0.35	SPE	1.55	Cu	2.00	94	-	PVC	2.55	green	1.10	0.20	1	-	U5	
	22511275		Wire	Cu	0.35	SPE	1.55	Cu	2.00	94	-	PVC	2.55	red	1.10	0.20	1	-	U5	
	22511398		Wire	Cu	0.35	SPE	1.55	Cu	2.00	94	-	PVC	2.55	black	1.10	0.20	1	-	U5	
	22511788		Wire	Cu	0.35	SPE	1.55	Cu	2.00	94	-	PVC	2.55	yellow	1.10	0.20	1	-	U5	
S_03133-01	22511626		Wire	SiCu	0.58	SPE	2.55	Cu	3.20	94	-	PVC2(LM)	4.50	black	2.70	0.35	1	-	-	
	22610020		Wire	Cu	0.83	SPE	3.70	Cu	4.35	92	-	PVC2(LM)	6.10	black	4.30	0.50	1	U17	U15	
S_04263	22511856		Wire	Cu	0.83	SPE	3.70	Cu	4.35	92	-	-	LSFH ¹⁾	6.10	black	4.70	0.50	1	U17	U15
	SA_12273-10		Wire	Cu	2.76	SPE	11.50	ALPES	12.28	100	-	-	PE ¹⁾	15.00	black	18.00	1.50	2	-	-

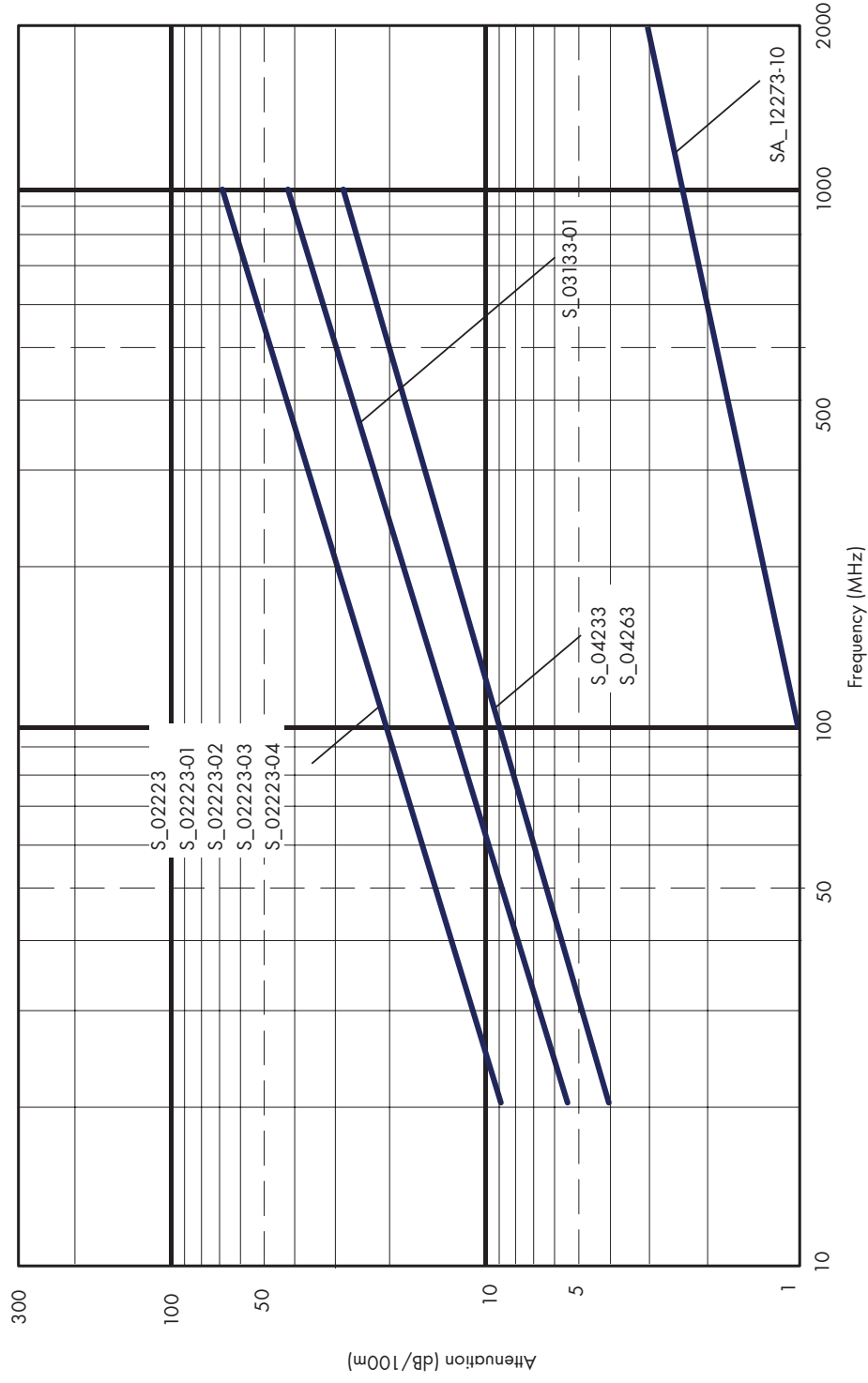
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Low loss RF coax cables, single screen, 75 Ω

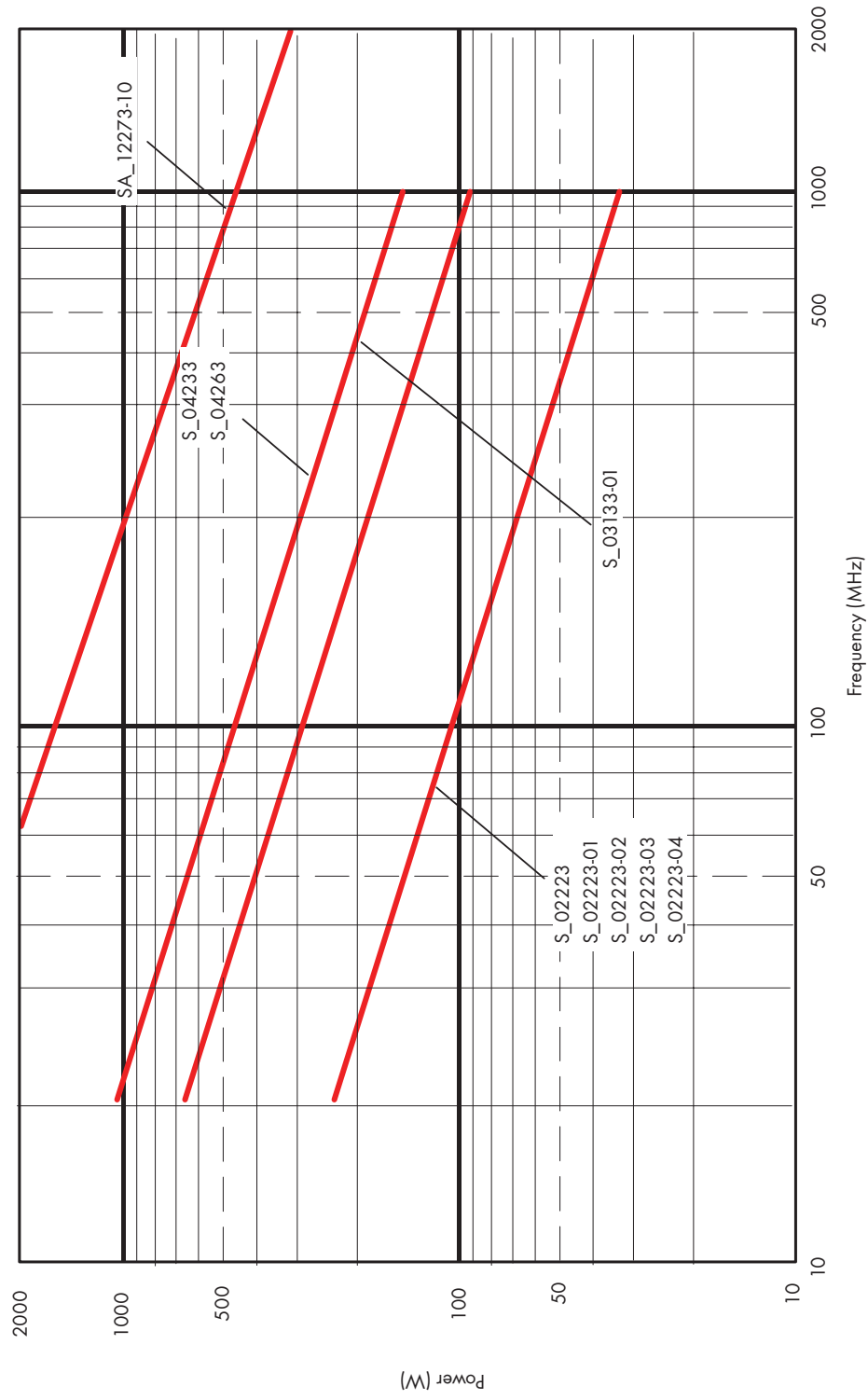
typical values at +20 °C ambient temperature



Power

Low loss RF coax cables, single screen, 75 Ω

typical values at +40 °C ambient temperature



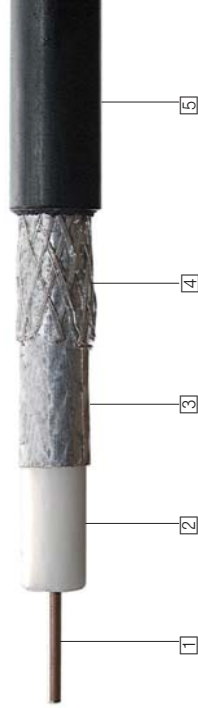
Low loss RF coax cables

double screen

75 Ω

Impedance	75 Ω
Capacitance	54 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø/with foil 10 x Ø jacket 5
Min. bending radius dynamic	15 x Ø/with foil 20 x Ø jacket 5
Temperature range of S cables	PVC, PVC(U), PVC2(LM): -25 °C to +85 °C LSFH, PE: -40 °C to +85 °C
Screening effectiveness	≥ 80 dB up to 2 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.				crimp	clamp
S_02133_B-05	22511912	32 and 33	Wire	CuAg	0.45	SPE	1.95	Al-PES	2.05	CuSn	100	CuSn	1.70	0.40	2	-	-
S_03133_D-06	22511879		Wire	Cu	0.62	SPE	2.82	Al-PES	2.90	CuSn	100	CuSn	4.20	0.25	2	-	-
S_05163-02	23003405		Wire	Cu	1.00	SPE	4.57	Al-PES	4.65	CuSn	100	CuSn	5.30	0.50	2	-	-
S_07233_B-60pl	22511786		Wire	Cu	1.57	SPE	7.25	Al-PES	7.30	CuSn	100	CuSn	12.40	1.00	2	-	-
S_07273-01	22510550		Wire	SiCu	1.57	SPE	7.25	Al-PES	7.45	CuSn	100	CuSn	7.90	1.00	2	-	-

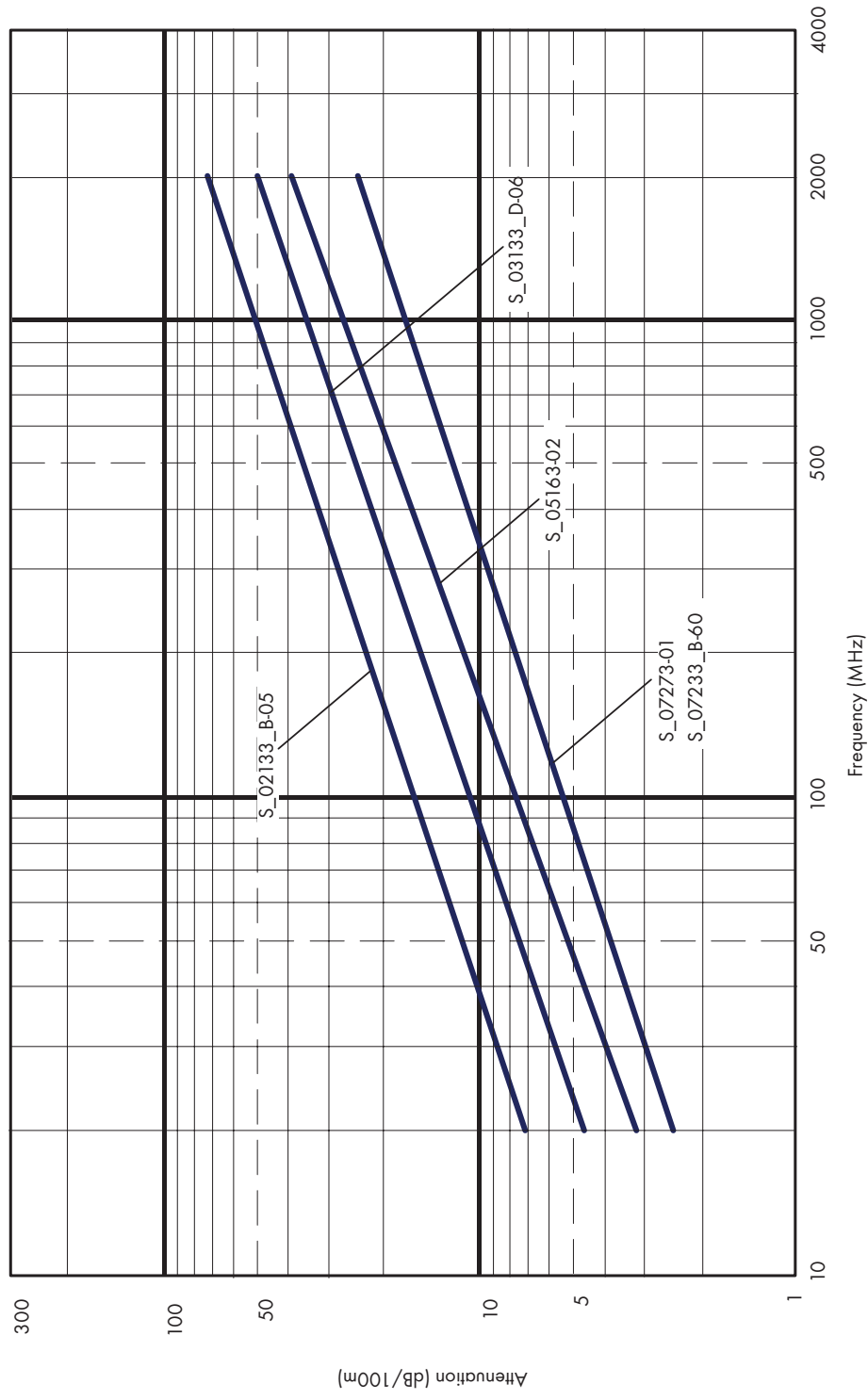
* for suitable connectors

a) UL recognised (see UL types page 117)

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

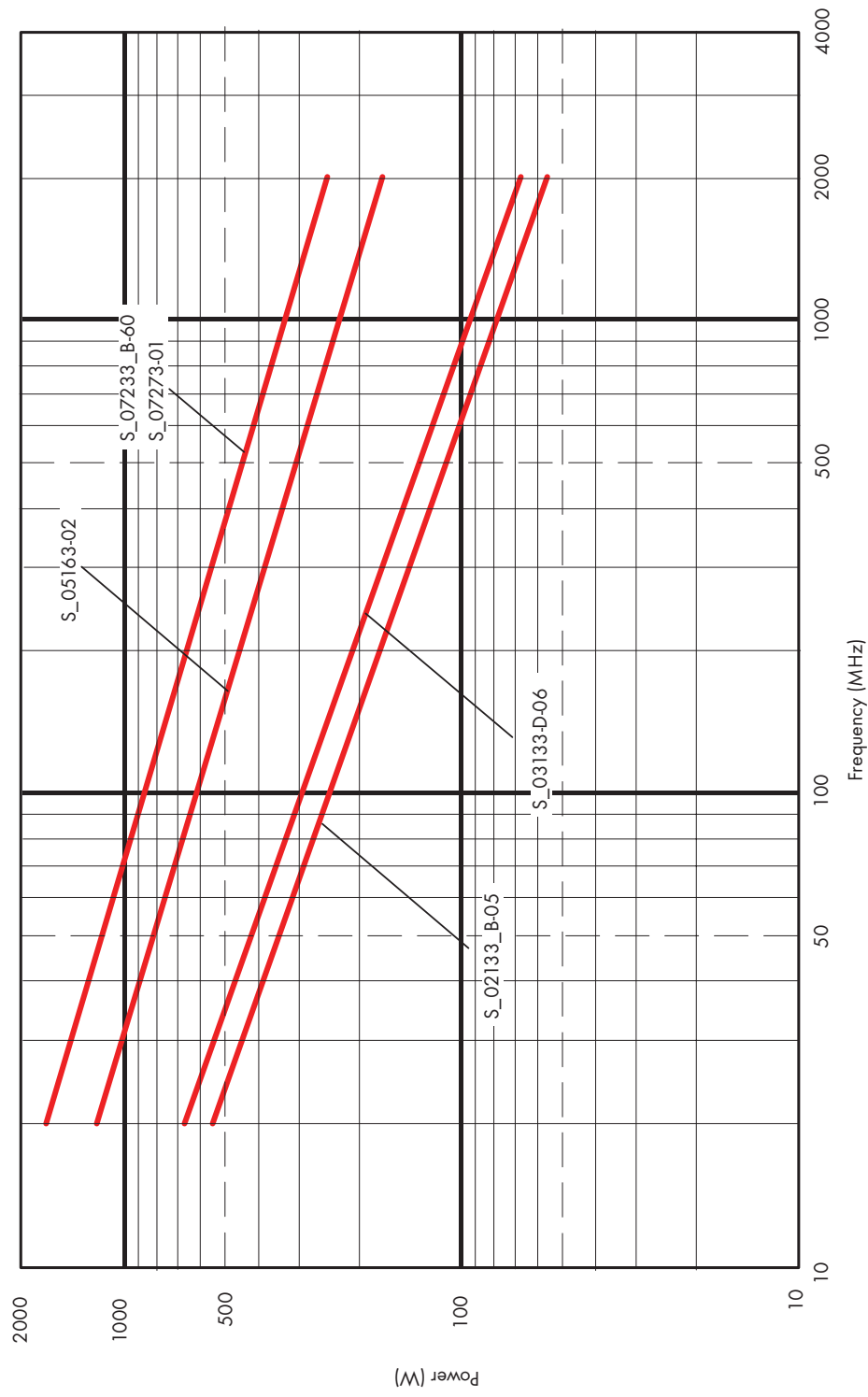
Attenuation

Low loss RF coax cables, double screen, 75 Ω
typical values at +20 °C ambient temperature



Power

Low loss RF coax cables, double screen, 75 Ω
typical values at +40 °C ambient temperature



Low loss RF coax cables (low phase vs temp)

double screen

50 Ω

Impedance	50 Ω
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø /with foil 10 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø /with foil 20 x Ø jacket [5]
Temperature range S cables	PE, PUR, LSFH, RADOX: -40 °C to +85 °C
Temperature range EF cables	-40 °C to +105 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor [1]			Dielectric [2]		Screen 1 [3]			Screen 2 [4]			Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Shield effect.	Max. phase vs temperat.	Cable group *		
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Colour										
S_04272_B ^{a)}	22511622	Wire	CuAg	1.40	SPE	3.82	ALPES	3.96	100	CuSn	4.48	86	PE ¹⁾	5.50	blue	4.40	0.50	18	90	981 ppm	-	-
S_04212_B ^{a)}	22511855	Wire	CuAg	1.40	SPE	3.82	ALPES	3.96	100	CuSn	4.48	87	PUR ¹⁾	5.30	black	4.10	0.50	18	90	437 ppm	-	-
ENVIROFLEX_393 (see page 70)	22512282	Strand-7	CuAg	2.46	SPEX	7.33	CuAg	8.75	92	CuAg	8.75	94	RADOX ¹⁾	10.10	black/blue	18.00	5.00	6.0	71	3200 ppm	-	U33
S_07262_BD ^{b)}	22511767	Strand-7	CuAg	2.82	SPE	7.35	CuAg	8.00	96	Cu	8.10	100	LSFH ¹⁾	10.80	black	20.60	1.05	3	90	2500 ppm	S32	-
S_10162_B-11 ^{b)}	23002145	Wire	CuAl	3.80	SPE	9.90	Cu	10.00	100	Cu	10.80	80	LSFH ¹⁾	12.90	black	15.00	1.70	7.5	90	4500 ppm	S39	-
S_10172_B-11 ^{b)}	22512320	Wire	CuAl	3.80	SPE	9.90	Cu	10.00	100	Cu	10.80	80	PE ¹⁾	12.90	black	15.00	1.50	7.5	90	4500 ppm	S39	-

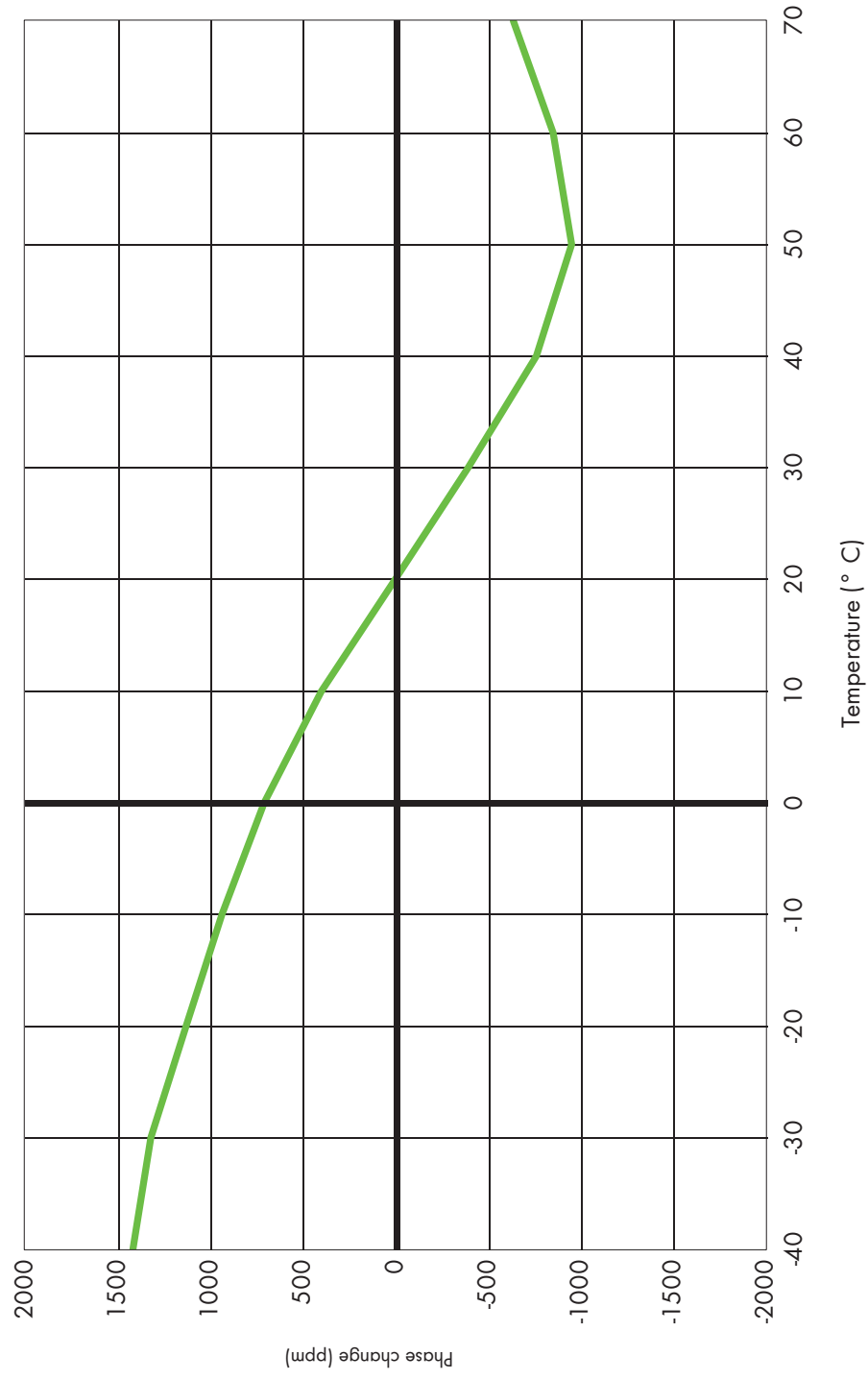
* for suitable connectors

a) for further technical data and suitable connectors see MICROWAVE CABLES AND ASSEMBLIES GENERAL CATALOGUE, item no. 23012500

b) see power and attenuation figures on pages 26 and 27

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Phase change vs temperature S_07262_BD



Overview of halogen free RF coax cables

standard +85 °C	50 Ω	single screen	page 38
standard +105 °C		single screen	page 39
standard +85 °C		double screen	page 42
standard +105 °C	75 Ω	double screen	page 43
standard +85 °C		single screen	page 46
standard +105 °C		single screen	page 47
	50 Ω		
standard +85 °C		double screen	page 50
standard +105 °C		double screen	page 51
low loss +85 °C	50 Ω	single screen	page 54
low loss +85 °C		double screen	page 57
low loss +105 °C		double screen	page 61
	75 Ω		
low loss +85 °C		single screen	page 64
low loss +85 °C		double screen	page 67
	50 and 75 Ω		
ENVIROFLEX [®] - the halogen free alternative to conventional PTFE coax cables		single and double screen	page 70
	50 and 75 Ω		
Railway approved halogen free coax cables		single and double screen	page 74

Halogen free RF coax cables

single screen

50 Ω

Standard, +85 °C

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Colour			crimp	clamp
G_02262	22510862	40 and 41	Strand-7	Cu	0.49	PE	1.50	96	-	-	LSFH ¹⁾	2.80	black	1.50	1	U2	U2
G_0326201	22512108		Strand-7	CuSn	0.90	PE	2.95	96	-	-	LSFH ¹⁾	4.95	black	2.50	1	U7	U7
G_0321201	22610095		Strand-19	CuSn	0.94	PE	2.95	95	-	-	PUR ¹⁾	4.95	black	2.50	1	U7	U7
G_03272	22511434		Strand-7	Cu	0.95	PE	2.95	95	-	-	PE ¹⁾	5.00	black	2.50	2	U7	U7
G_07262	22511836		Strand-7	Cu	2.25	PE	7.28	96	-	-	LSFH ¹⁾	10.30	black	5.00	1	U29	U28

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Halogen free RF coax cables

single screen

50 Ω

Standard, +105 °C

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +105 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor		Dielectric		Screen 1			Screen 2			Jacket		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour					
GX_02272	22510833	40 and 41	Strand-7	Cu	0.49	PEX	1.50	CuAg	2.00	96	-	-	RADOX ¹⁾	2.80	black	1.45	2	U2	-
GX_03272	22510959		Strand-19	CuSn	0.94	PEX	2.95	CuAg	3.60	96	-	-	RADOX ¹⁾	4.95	black	4.00	2	U7	U7
GX_07272	22510708		Strand-7	Cu	2.25	PEX	7.25	CuAg	8.15	95	-	-	RADOX ¹⁾	10.30	black	16.10	2	U29	U28

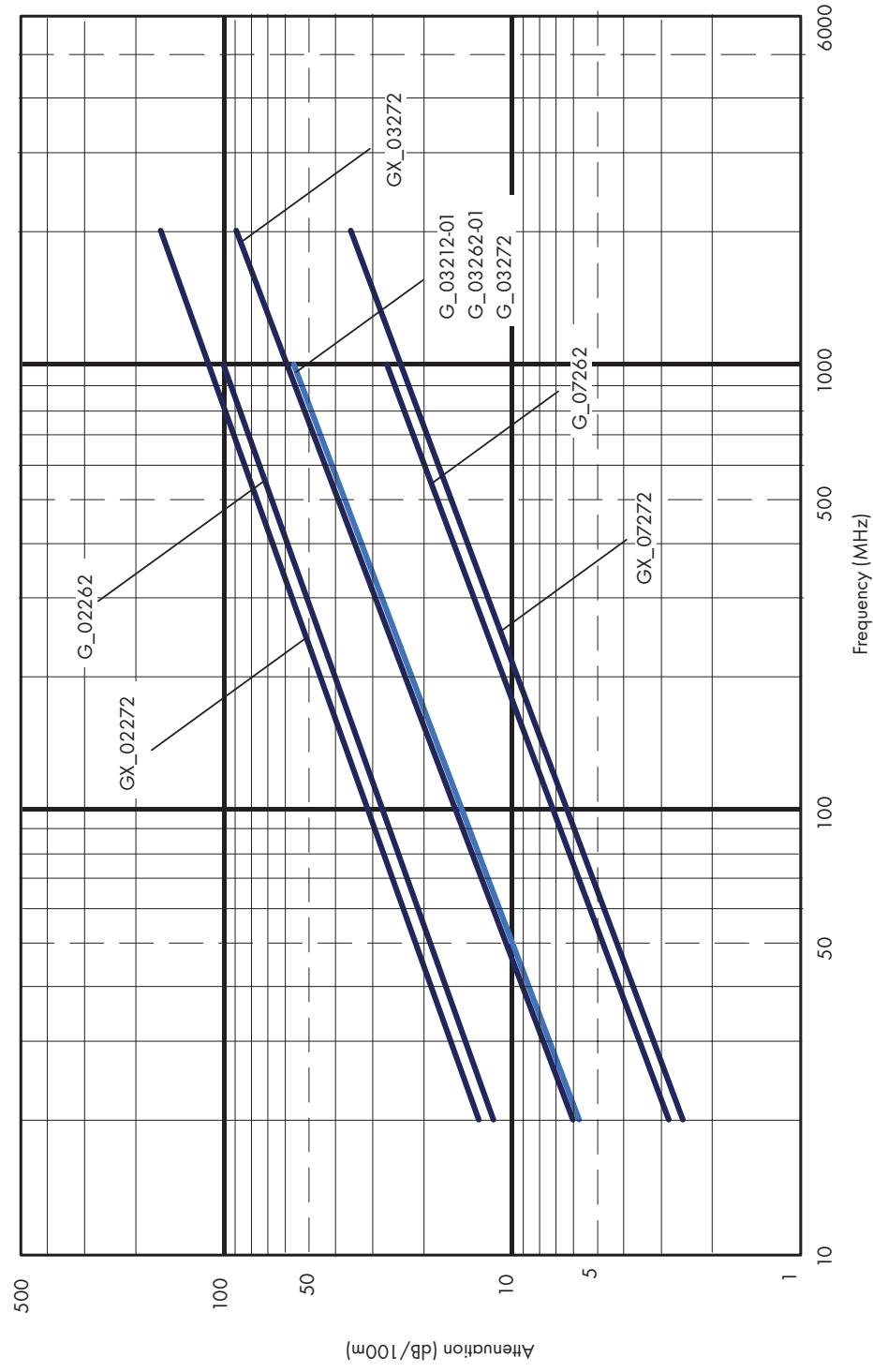
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, standard types, single screen, 50 Ω

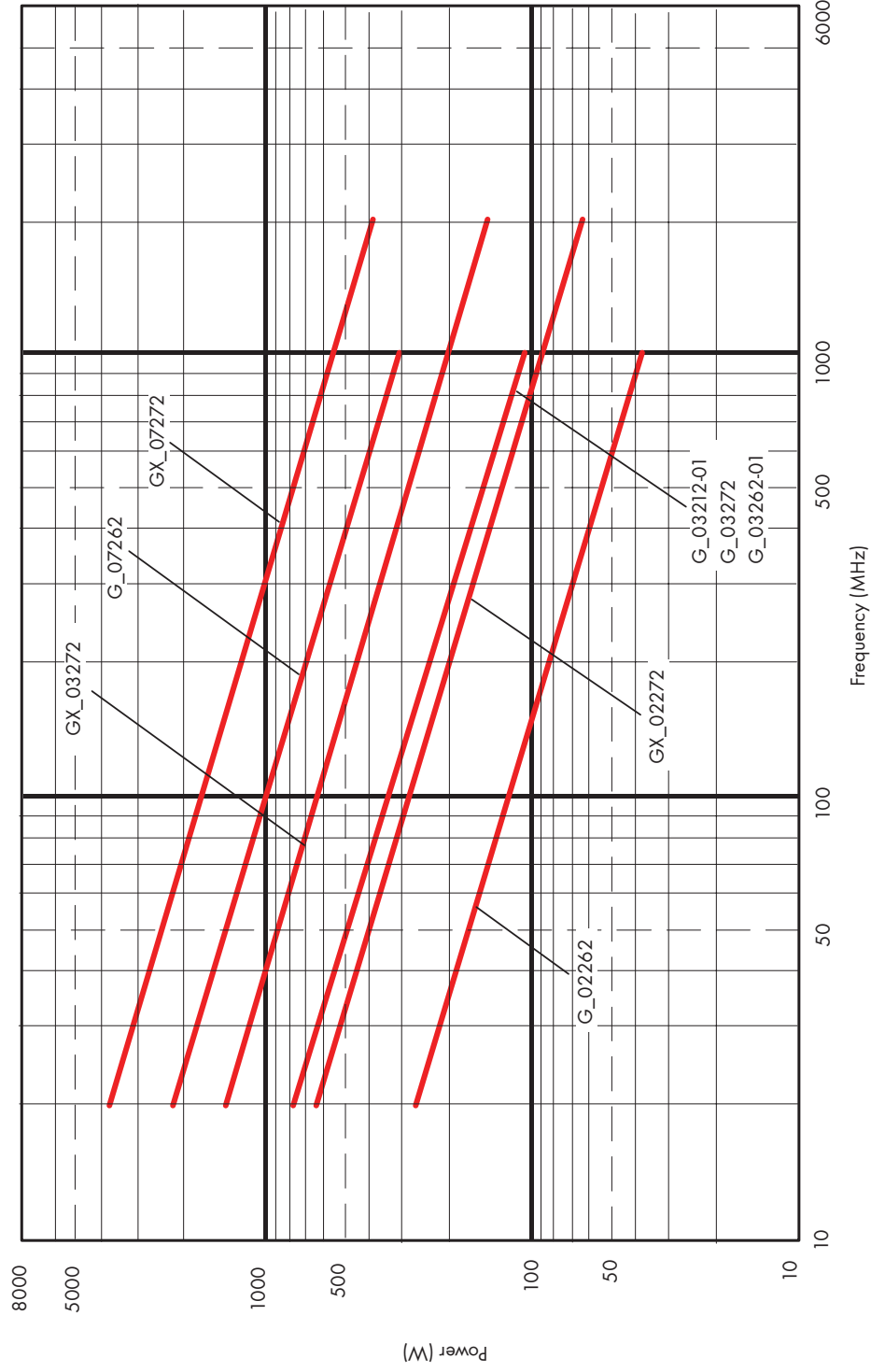
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, standard types, single screen, 50 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

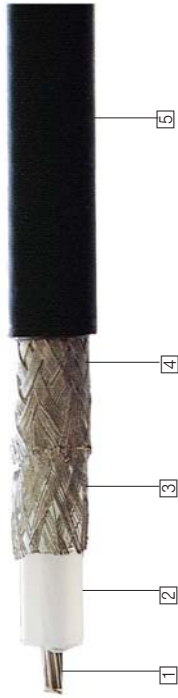
double screen

50 Ω

Standard, +85 °C

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø/ with foil 10 x Ø jacket 5
Min. bending radius dynamic	15 x Ø/ with foil 10 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 80 dB up to 6 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor		Dielectric		Screen 1		Screen 2		Jacket		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *		
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.				Dim. mm	Colour	
G_02212_D-02	22511668	44 and 45	Strand-7	CuAg	0.48	PE	1.50	CuAg	2.00	95	SiCuAg	2.50	93	PUR ¹⁾	3.10	orange	U4	U4
G_02262_BD	22512069		Strand-7	Cu	0.49	PE	1.50	CuAg	1.95	97	µ-metal	2.05	100	LSFH ¹⁾	3.10	black	U4	U4
G_03262_D	22511812		Wire	CuAg	0.88	PE	2.95	CuAg	3.60	96	CuAg	4.20	94	LSFH ¹⁾	5.40	black	U9	U10
G_03212_D-01	22512305		Strand-19	CuSn	0.90	PE	2.95	CuSn	3.60	96	CuSn	4.20	94	PUR ¹⁾	5.40	black	U9	U10
G_03262_D-01	22511782		Strand-19	CuSn	0.94	PE	2.95	CuSn	3.60	94	CuSn	4.25	93	LSFH ¹⁾	5.40	black	U9	U10
G_07262_D	22512085		Strand-7	CuAg	2.25	PE	7.28	CuAg	8.00	93	CuAg	8.70	95	LSFH ¹⁾	10.80	black	U32	U33

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Halogen free RF coax cables

double screen

50 Ω

Standard, +105 °C

Impedance	50 Ω
Capacitance	101 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range standard cables	-40 °C to +105 °C
Screening effectiveness	≥ 40 dB up to 1 GHz (single screen) ≥ 80 dB up to 6 GHz (double screen)

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor 1			Dielectric 2		Screen 1 3			Screen 2 4			Jacket 5		Weight kg/ 100 m	Operating voltage kV	Max. oper. freq.	Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour	crimp				clamp	
GX_02272_D-02	22511671	Strand-7 Wire Strand-19 Strand-7	CuAg	0.48	PEX	1.50	96	CuSn	2.50	93	RADOX ¹⁾	3.20	black	2.10	1.00	6	U4	U4	
GX_03272_D-06	22511592		CuAg	0.88	PEX	2.95	96	CuAg	4.20	94	RADOX ¹⁾	5.40	black	5.50	2.50	6	U9	U10	
GX_03262	22511645		CuSn	0.94	PEX	2.95	96	CuSn	3.80	100	LSFH ¹⁾	5.20	black	4.30	2.50	1	-	-	
GX_07272_D	22511171		CuAg	2.25	PEX	7.28	93	CuAg	8.70	95	RADOX ¹⁾	10.80	black	19.80	5.00	6	U32	U33	

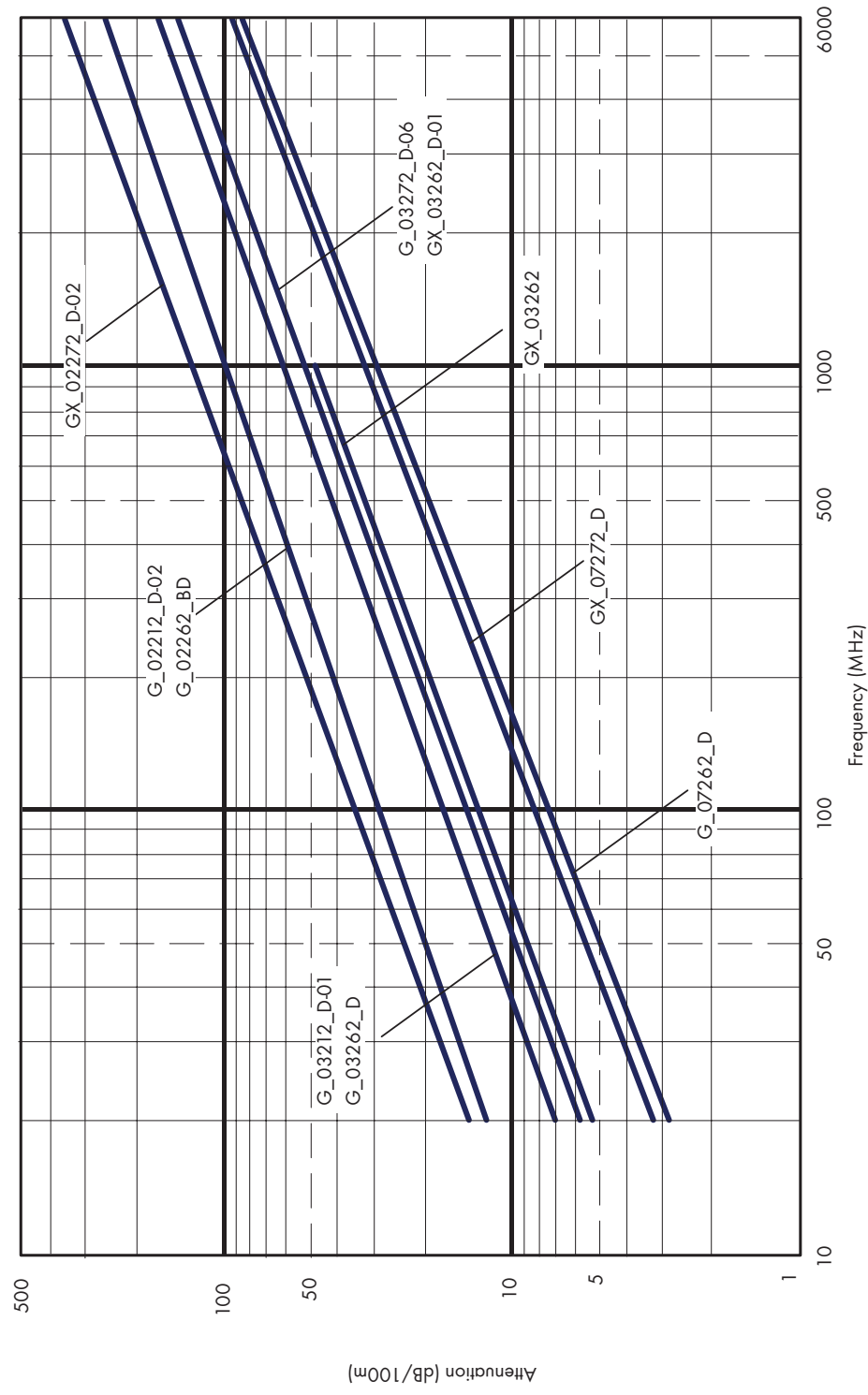
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, standard types, double screen, 50 Ω

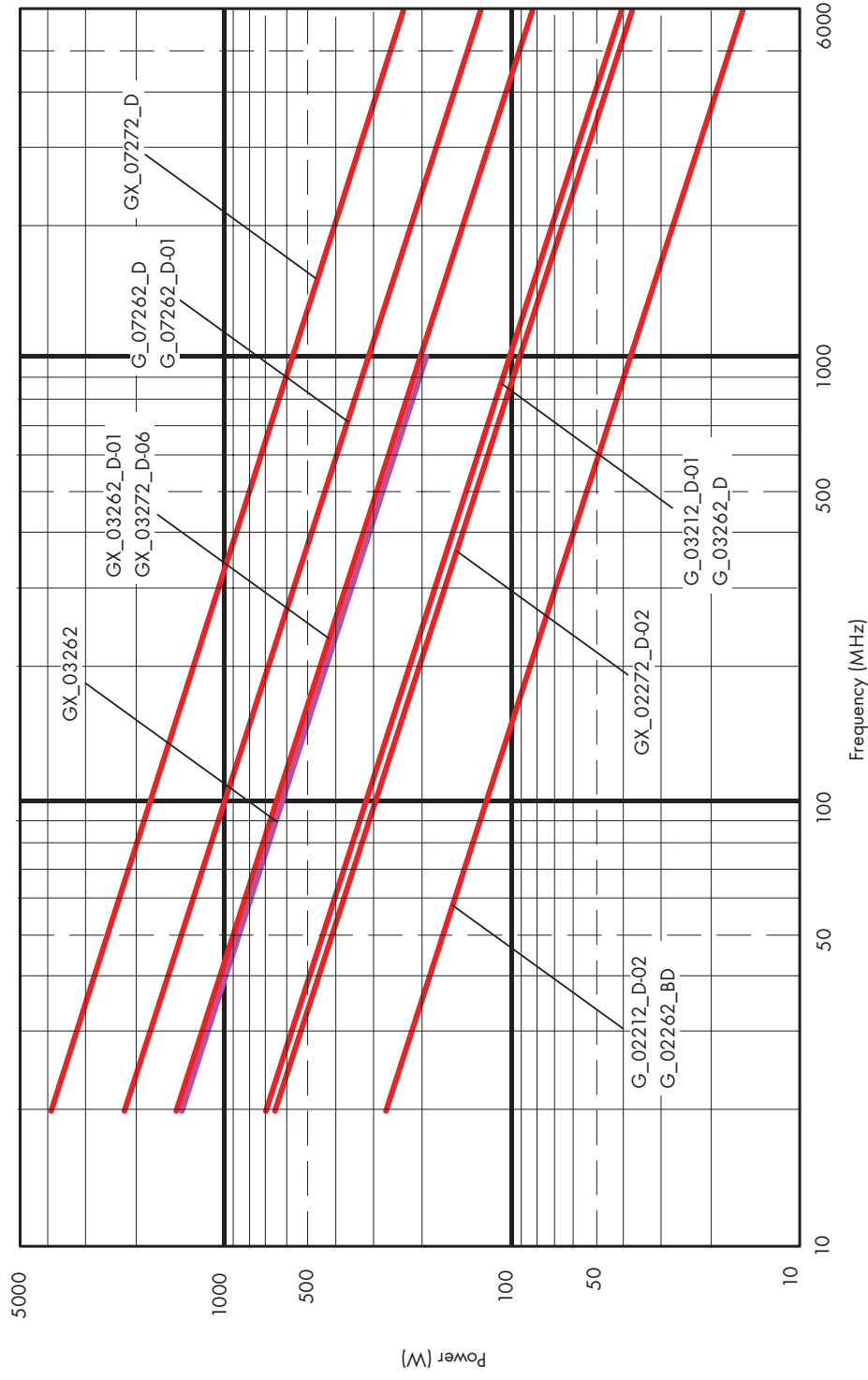
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, standard types, double screen, 50 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

single screen

75 Ω

Standard, +85 °C

Impedance	75 Ω
Capacitance	67 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Colour			crimp	clamp
G_03263	22512297	48 and 49	Strand-7	Cu	0.49	PE	2.95	95	-	-	LSFH ¹⁾	5.00	black	3.90	1	U12	U12
G_03213_D	22510954		Strand-7	Cu	0.49	PE	2.95	94	CuSn	4.20	PUR ¹⁾	5.35	black	5.00	2	U14	U14
G_04263-01	22511501		Wire	SiCu	0.58	PE	3.64	93	-	-	LSFH ¹⁾	6.10	green	5.20	1	U16	U15
G_04263-03	22511867		Wire	SiCu	0.58	PE	3.64	93	-	-	LSFH ¹⁾	6.10	black	5.20	1	U16	U15
G_04273	22511437		Wire	SiCu	0.58	PE	3.64	92	-	-	PE ¹⁾	6.10	black	4.50	1	U16	U15

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Halogen free RF coax cables

single screen

75 Ω

Standard, +105 °C

Impedance	75 Ω
Capacitance	67 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁹ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +105 °C
Screening effectiveness	≥ 40 dB at 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Operating voltage kV	Max. operation frequency	Cable group*	
		Design	Mat.	Dim. mm	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm			crimp	clamp
GX_03173-01	22511581	Strand-7	SiCu	0.42	2.45	CuSn	2.90	-	-	RADOX ¹⁾	3.70	2.00	1	-	U6
GX_04273	22510458	Strand-7	Cu	0.64	3.75	CuAg	4.45	-	-	RADOX ¹⁾	6.10	3.00	1	U16	U15
GX_04273-13	23030797	Strand-7	Cu	0.64	3.75	CuAg	4.45	-	-	RADOX ¹⁾	6.10	3.00	1	U16	U15

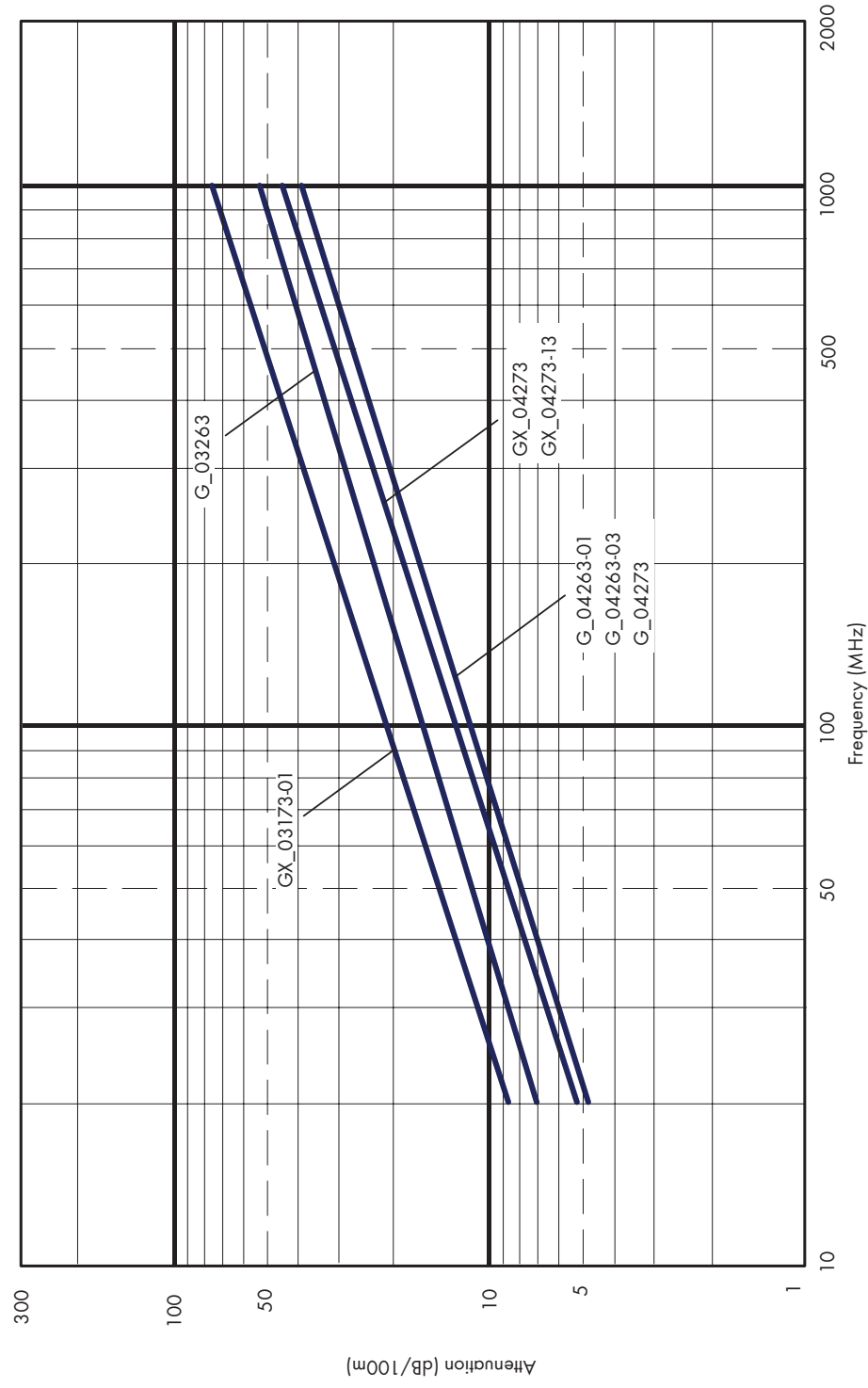
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, standard types, single screen, 75 Ω

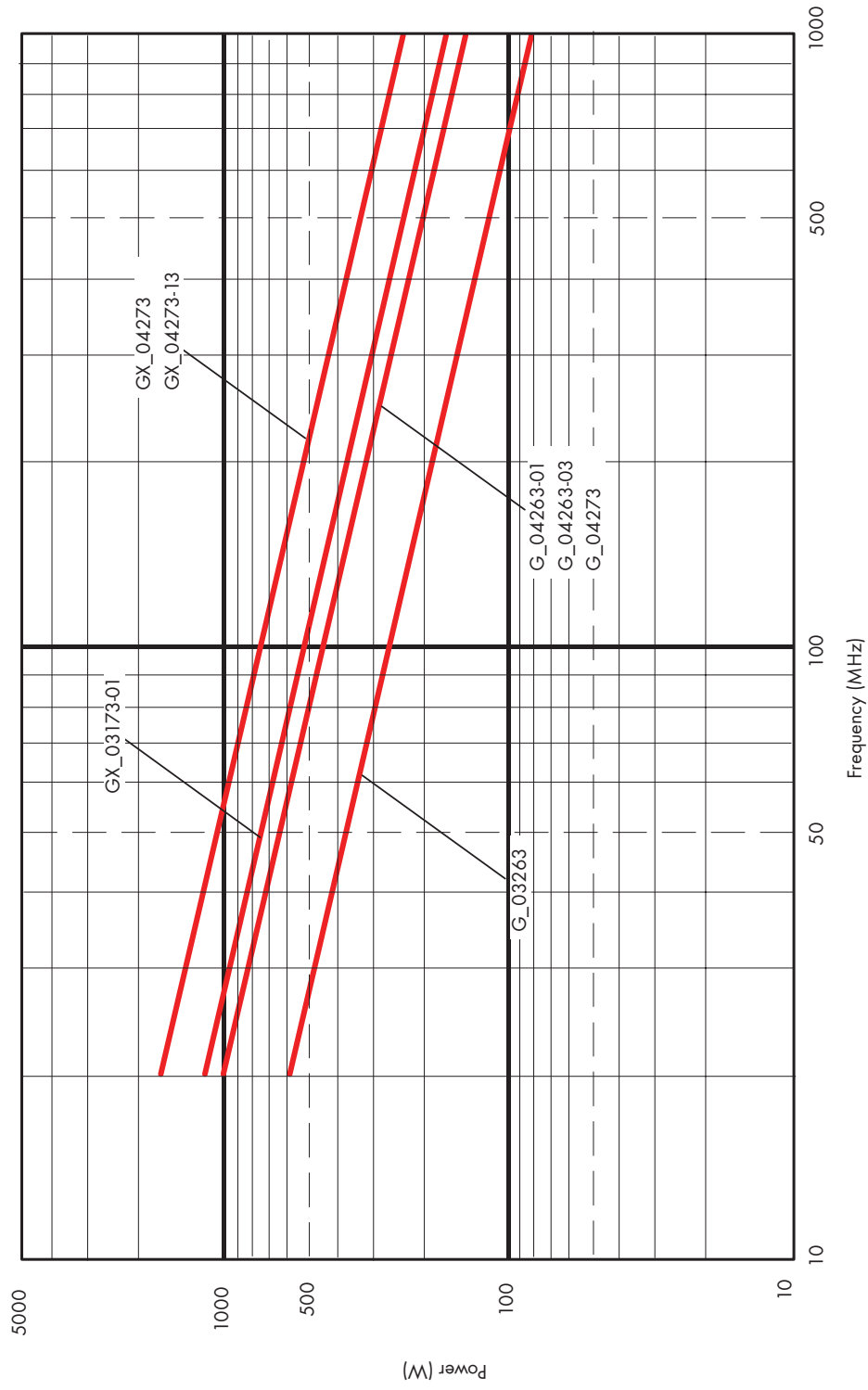
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, standard types, single screen, 75 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

double screen

75 Ω

Standard, +85 °C

Impedance	75 Ω
Capacitance	67 pF/m
Velocity of signal propagation	66 % of the speed of light
Signal delay	5.0 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page 52 and 53	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m		Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Colour	kg/100 m			crimp	clamp
G_03213_D	22510954	52 and 53	Strand-7	Cu	0.49	PE	2.95	94	CuSn	3.60	93	4.20	black	5.00	2.00	2	U14	U14

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Halogen free RF coax cables

double screen

75 Ω

Standard, +105 °C

Impedance	75 Ω
Capacitance	54 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁹ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +105 °C
Screening effectiveness	≥ 40 dB at 2 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/ 100 m	Operating voltage kV	Max. oper. freq.	Cable group *			
		Design	Mat.	Dim. mm	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Mat.	Dim. mm					Colour		
GX_02273_D	22511507	Curves see page 52 and 53																
			Wire	SiCu	0.24	1.50	CuAg	2.00	96	CuAg	2.50	93	RADOX ¹⁾	3.30	black	2.10	1.00	2

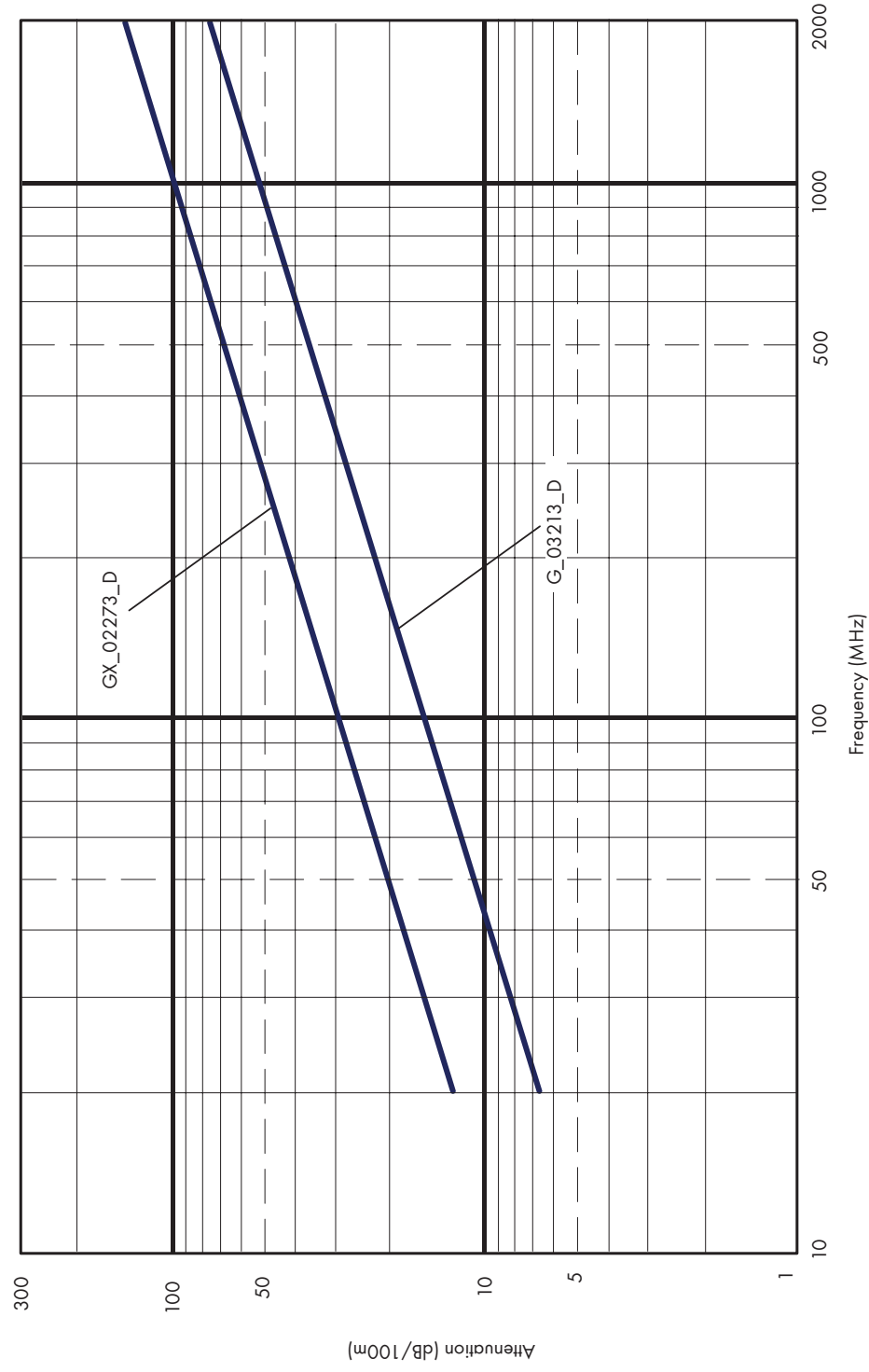
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free coax cables, standard types, double screen, 75 Ω

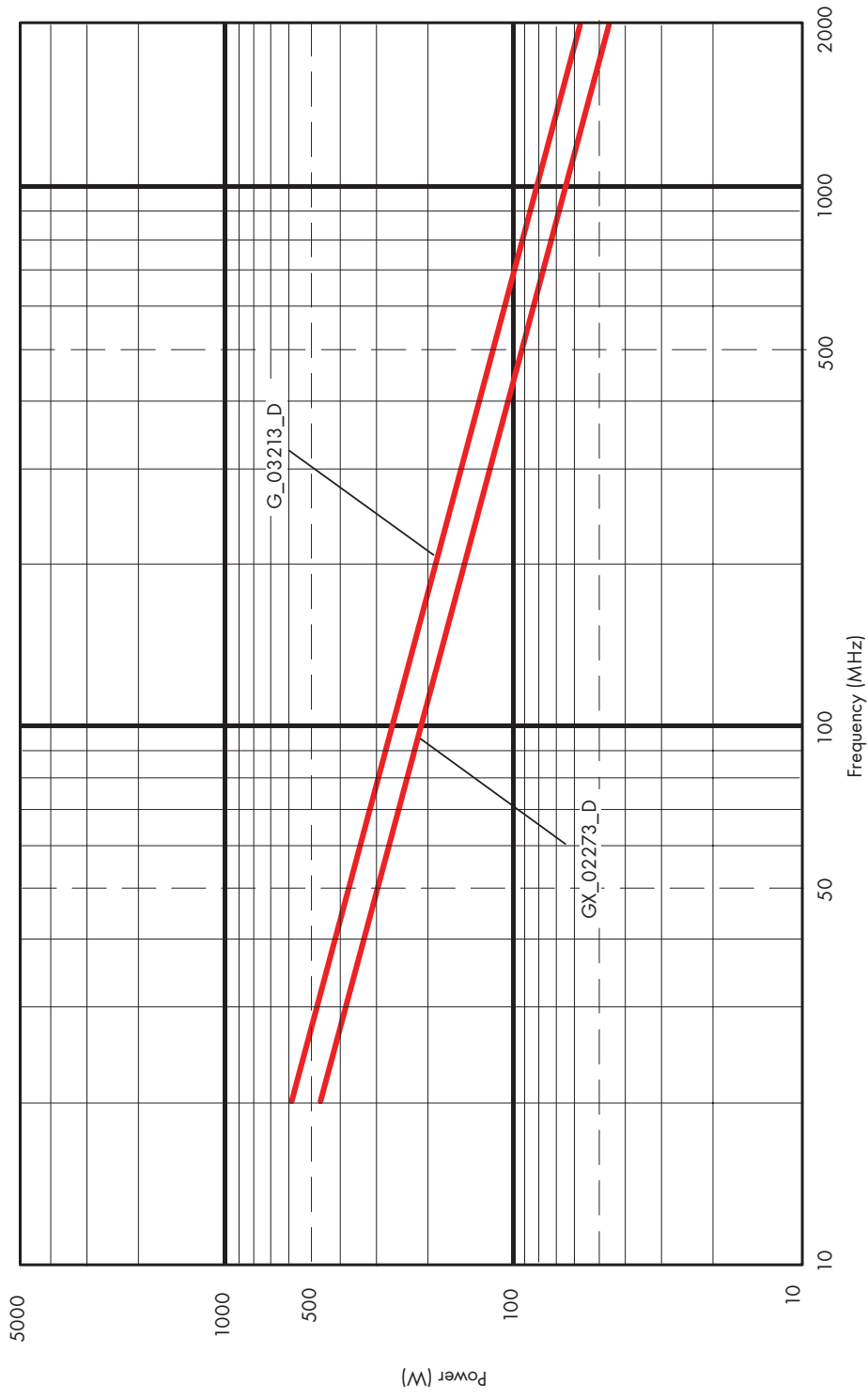
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, standard types, double screen, 75 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

single screen

50 Ω

Low loss, +85 °C

Impedance	50 Ω
Capacitance	82 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁹ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm					
S_02112-03	23008453	55 and 56	Strand-19	Cu	0.81	SPE	2.12	92	-	-	HYTREL	3.15	2.00	0.25	2.5	-	crimp
SA_07272*	22520119		Wire	Cu	2.68	SPE	7.25	100	-	-	PE1)	10.00	11.20	1.05	2.5	T3	-
SA_12272*	22620002		Wire	AlCu	4.25	SPE	11.50	100	-	-	PE1)	15.00	17.60	1.70	2.5	T5	-

* for suitable connectors

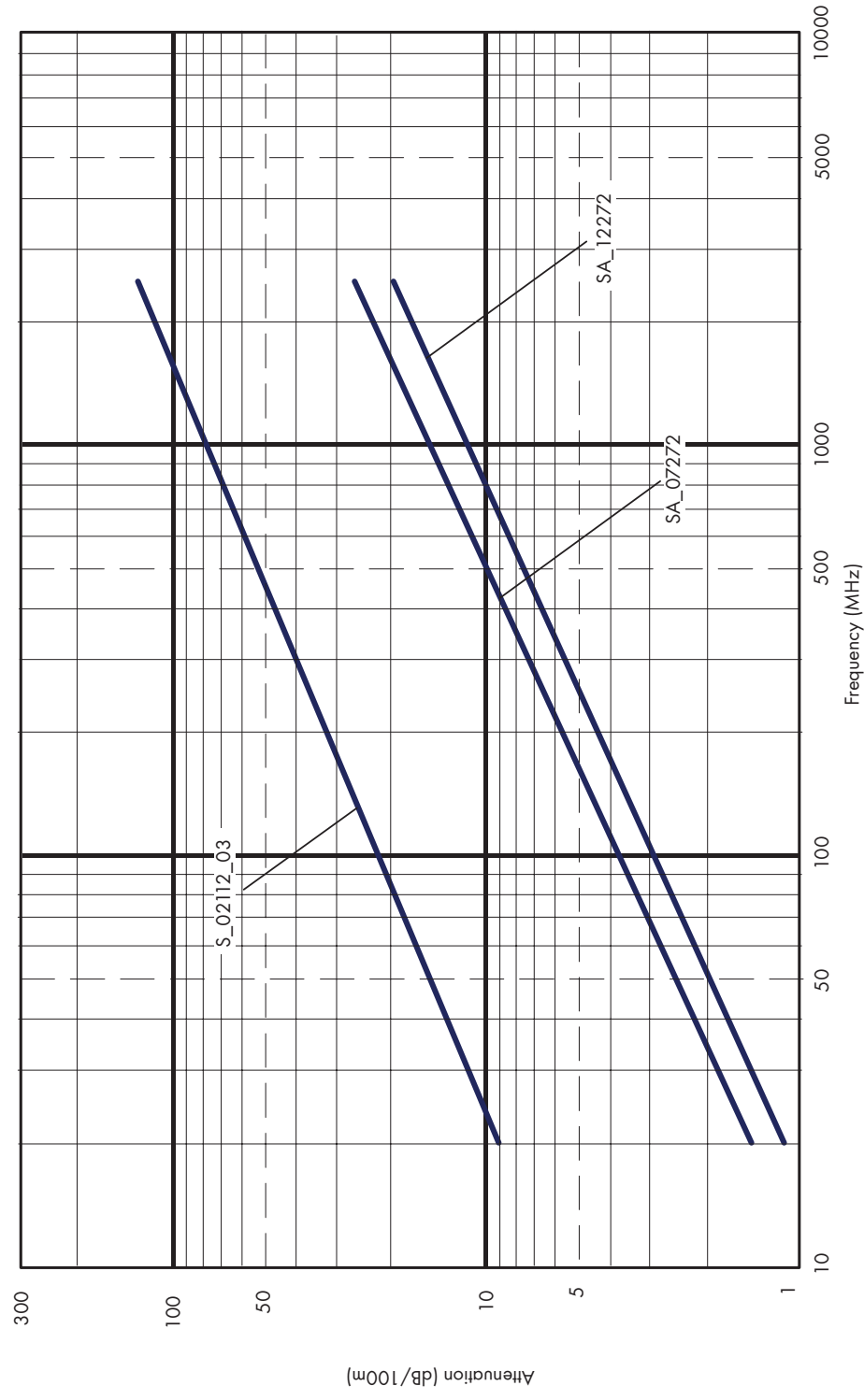
* longitudinal foil bound to the jacket

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, low loss types, single screen, 50 Ω

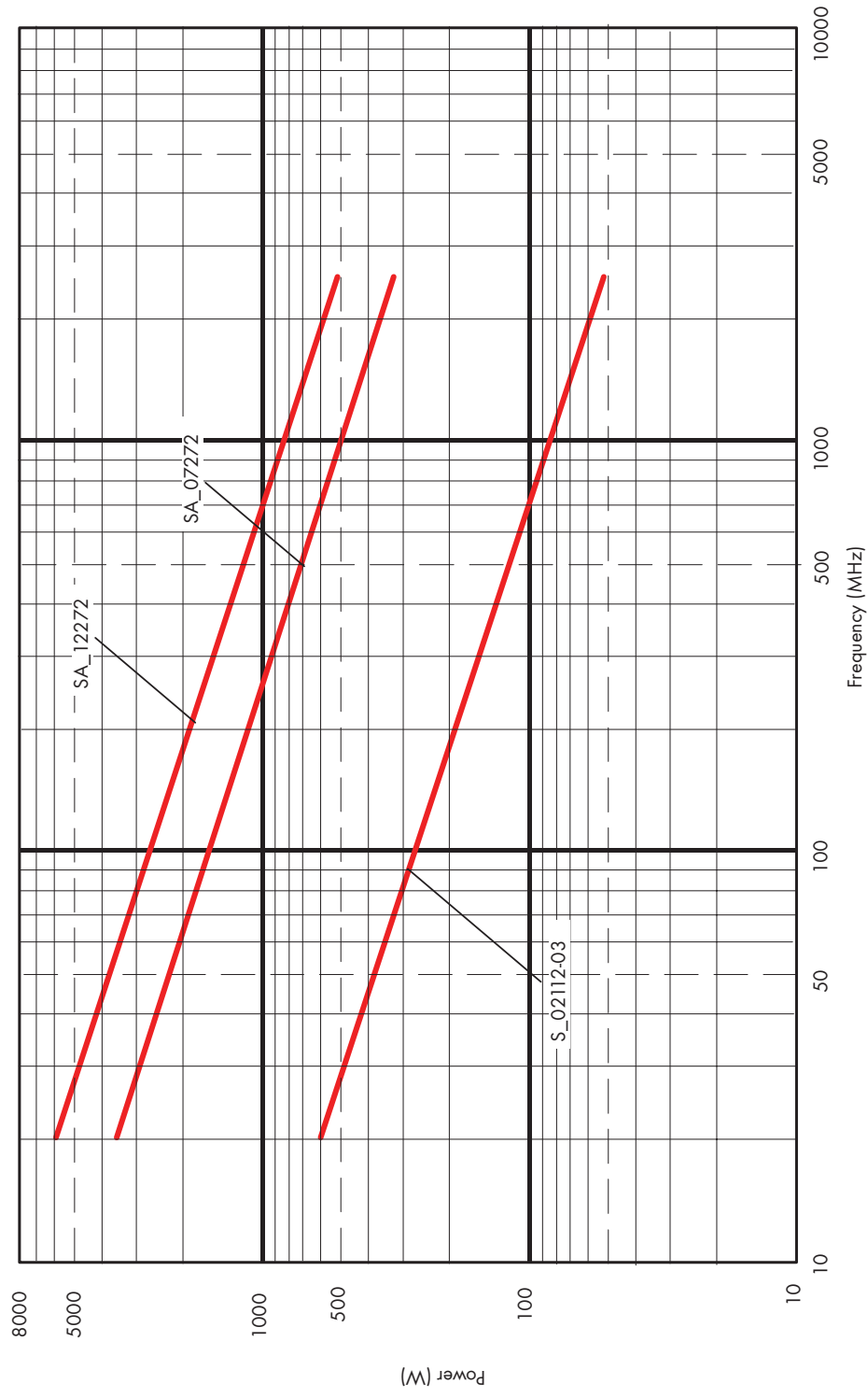
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, low loss types, single screen, 50 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

double screen

50 Ω

Low loss, +85 °C

Impedance	50 Ω
Capacitance	82 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø/with foil 10 x Ø jacket 5
Min. bending radius dynamic	15 x Ø/with foil 20 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 80 dB up to 6 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1			Dielectric 2		Screen 1 3			Screen 2 4			Jacket 5		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.				Dim. mm	Colour
S_01112_D	22512129	59 and 60	Strand-7	Cu	0.54	SPE	1.32	CuSn	92	2.20	95	LSFH ¹⁾	2.65	black	1.30	0.20	6	-	-	
S_02162_B	22512310		Strand-7	Cu	0.80	SPE	2.10	Al-PES	100	2.70	75	LSFH ¹⁾	3.15	black	2.50	0.25	6	S9	-	
S_02112_D	22511910		Strand-19	CuSn	0.90	SPE	2.39	Cu	96	3.50	84	PUR ¹⁾	4.50	black	3.70	0.35	6	S8	-	
S_03212_D-02	23005520		Wire	CuAg	1.10	SPE	2.96	CuAg	95	4.20	93	HYTREL	5.40	black	5.43	0.45	6	-	-	
S_04172_D	22511598		Wire	CuAg	1.40	SPE	3.78	CuAg	94	4.70	94	PE ¹⁾	5.70	black	5.50	0.55	5	S16	-	
S_04262_D	22511966		Wire	CuAg	1.40	SPE	3.78	CuAg	96	4.70	94	LSFH ¹⁾	5.70	black	5.50	0.50	6	S16	-	
S_04262_D-02	22512107		Strand-19	CuAg	1.43	SPE	3.77	CuAg	92	5.25	77	LSFH ¹⁾	6.50	black	6.80	0.50	6	-	-	

Low loss, +85 °C (cont.)

H+S type	Item no.	Center conductor [1]			Dielectric [2]		Screen 1 [3]			Screen 2 [4]			Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour					crimp	clamp
S_03262_B-60	84010497	Wire	Cu	1.06	SPE	2.96	Al-PES	3.05	100	LSFH ¹⁾	4.50	black	3.26	0.40	5	-	-	-	-
S_04162_B-60	84023780	Wire	Cu	1.40	SPE	3.80	Al-PES	4.00	100	LSFH ¹⁾	5.50	black	4.78	1.00	6	-	-	-	-
S_04212_B	22511855	Wire	CuAg	1.40	SPE	3.82	Al-PES	3.96	100	PUR ¹⁾	5.30	black	4.10	0.50	18	-	-	-	-
S_04262_B-01	84000918	Wire	CuAg	1.40	SPE	3.82	Al	3.96	100	LSFH ¹⁾	5.50	black	4.10	0.50	18	-	-	-	-
S_04272_B	22511622	Wire	CuAg	1.40	SPE	3.82	Al-PES	3.96	100	PE ¹⁾	5.50	blue	4.40	0.50	18	-	-	-	-
S_06162_D-02	22511923	Wire	CuAg	2.05	SPE	5.60	CuAg	6.10	93	LSFH ¹⁾	7.90	black	11.00	0.75	6	S24	-	-	-
S_07272_B-05	23029079	Wire	Cu	2.68	SPE	7.29	Al-PES	7.45	100	PE ¹⁾	10.20	black	13.25	1.05	5	U30	U31	-	-
S_07212_BD	22511864	Strand-7	CuAg	2.82	SPE	7.38	CuAg	8.00	96	PUR ¹⁾	10.80	black	20.60	1.05	3b ¹⁾	S32	-	-	-
S_07262_BD ^{a)}	22511767	Strand-7	CuAg	2.82	SPE	7.38	CuAg	8.00	96	LSFH ¹⁾	10.80	black	20.60	1.05	3b ¹⁾	S32	-	-	-
S_10162_B-11	23002145	Wire	CuAl	3.80	SPE	9.90	Cu	10.00	100	LSFH ¹⁾	12.90	black	15.00	1.70	7.5	S39	-	-	-
S_10172_B-11	22512320	Wire	CuAl	3.80	SPE	9.75	Cu	10.00	100	PE ¹⁾	12.90	black	15.00	1.50	7.5	S39	-	-	-
S_12272-04	22510390	Wire	CuAl	4.20	SPE	11.50	Cu	11.55	100	PE ¹⁾	15.00	black	19.10	1.70	10	-	-	-	U40

* for suitable connectors

a) screening effectiveness 105 dB at 2 GHz

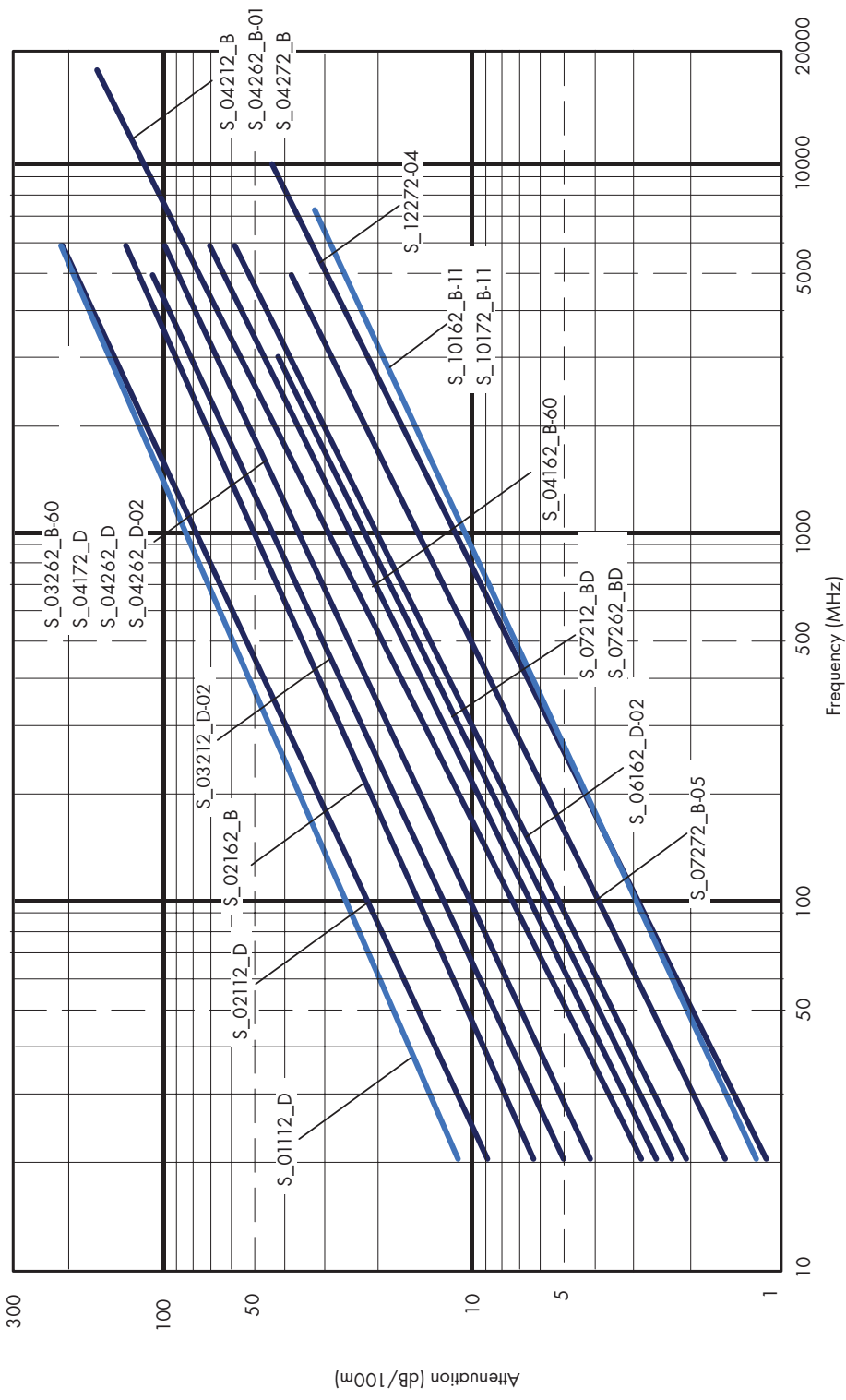
b) also applicable between 4 to 5.85 GHz

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, low loss types, double screen, 50 Ω

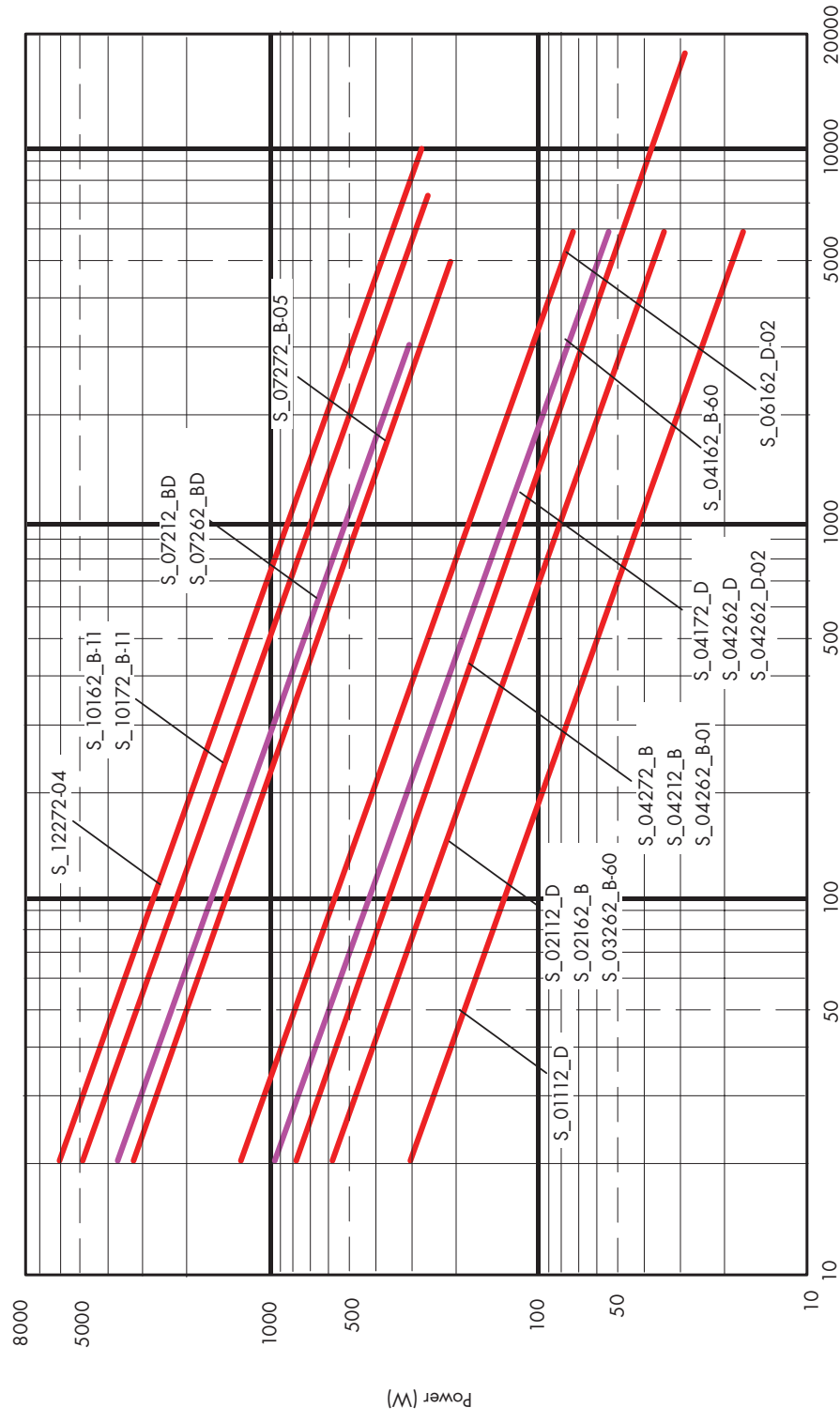
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, low loss types, double screen, 50 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

double screen

50 Ω

Low loss, +105 °C

Impedance	50 Ω
Capacitance	82 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁹ MΩm
Min. bending radius static	5 x Ø/with foil 10 x Ø jacket 5
Min. bending radius dynamic	15 x Ø/with foil 20 x Ø jacket 5
Temperature range standard cables	-40 °C to +105 °C
Screening effectiveness	≥ 80 dB up to 6 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Mat.	Dim. mm	Colour				crimp	clamp
SX_03232_B-60b)	84018307	Wire	Cu	1.065	SPEX	2.96	100	3.80	CuSn	4.50	black	3.19	0.4	5	-	-
SX_03272_B-60b)	84010513	Wire	Cu	1.065	SPEX	2.96	100	3.80	CuSn	4.50	black	3.25	0.4	5	-	-
SX_03272_D01	22511948	Wire	CuAg	1.10	SPEX	2.96	95	4.20	CuAg	5.40	black	6.10	0.45	6	-	U10
SX_04172_B-60b)	84026748	Wire	CuAg	1.40	SPEX	3.80	86	4.53	CuSn	5.50	black	4.78	0.7	6	-	-
SX_04272_D02	22511926	Wire	CuAg	1.40	SPEX	3.82	97	4.70	CuAg	5.70	black	5.50	2.00	6	S16	-
SX_07262_BD	22511765	Strand-7	CuAg	2.82	SPEX	7.35	96	8.10	Cu	10.80	black	20.60	1.05	3b)	S32	-
SX_07272_BD	22512245	Strand-7	CuAg	2.85	SPEX	7.35	96	8.20	Cu	10.80	black	19.80	1.10	3b)	S32	-

* for suitable connectors

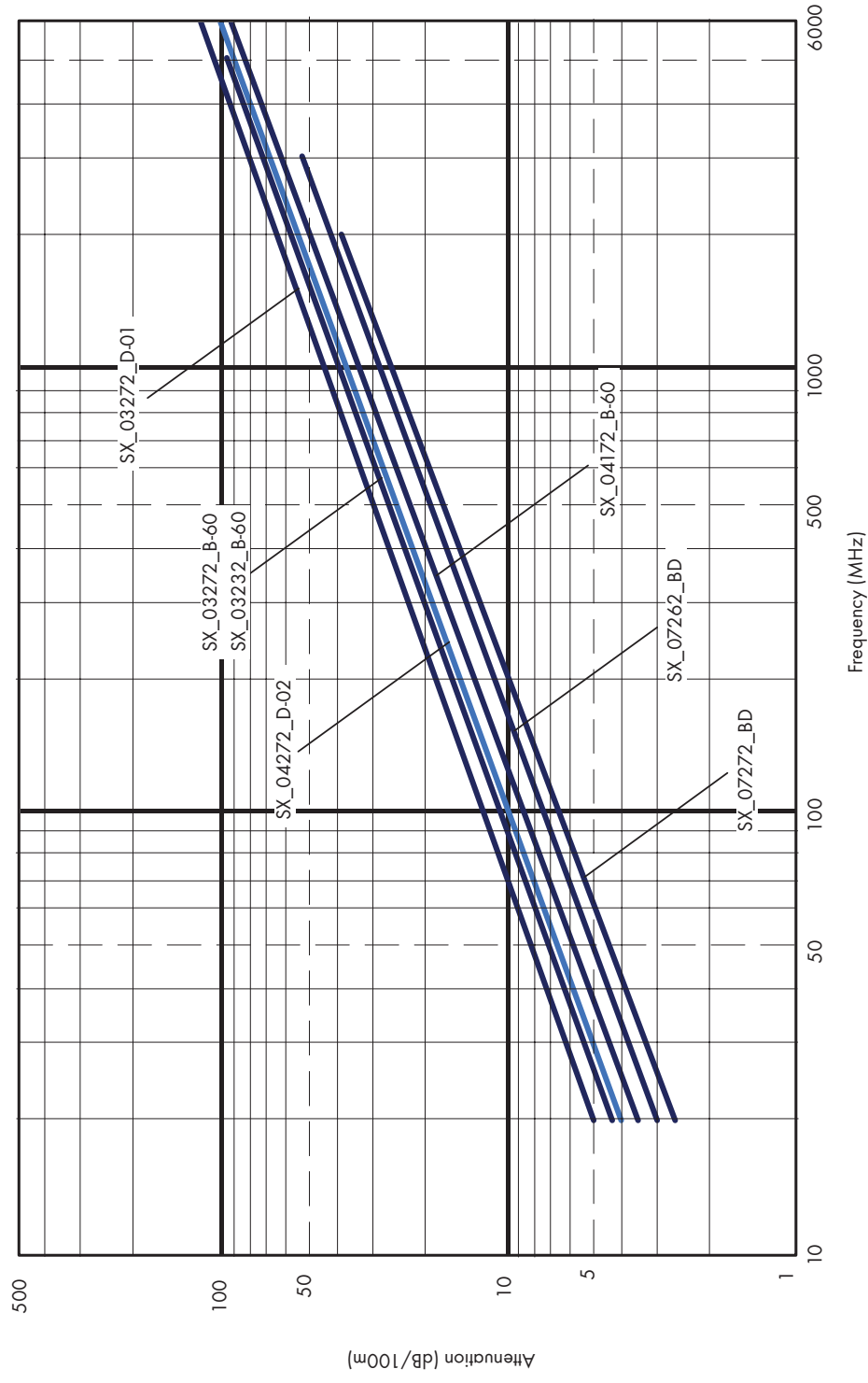
b) UL recognised (see UL types page 117)

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, low loss types, double screen, 50 Ω

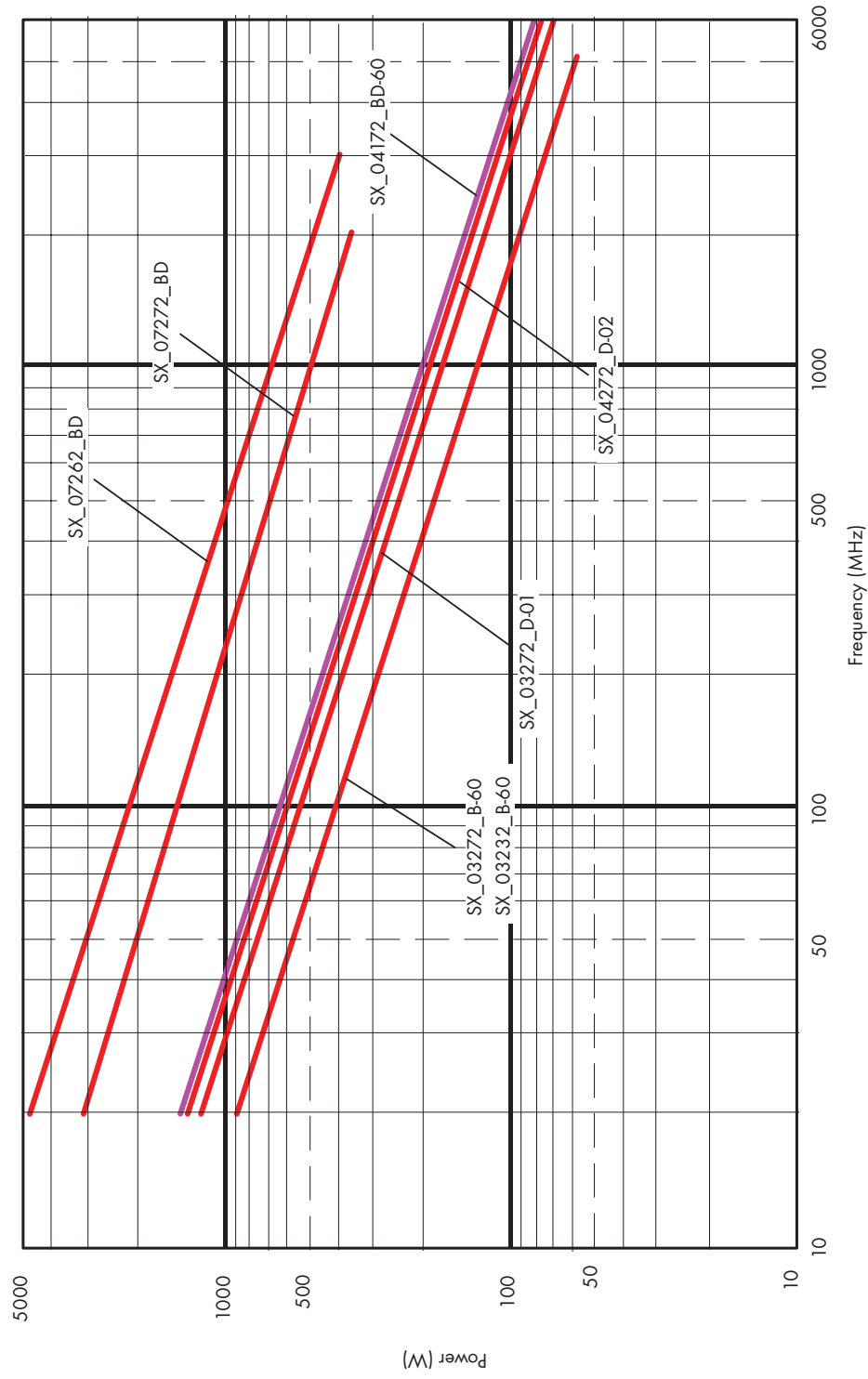
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, low loss types, double screen, 50 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

single screen

75 Ω

Low loss, +85 °C

Impedance	75 Ω
Capacitance	54 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]			Dielectric [2]		Screen 1 [3]			Screen 2 [4]			Jacket [5]		Weight kg/ 100 m	Operating voltage kV	Max. operation frequency	Cable group *		
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour	crimp				clamp		
S_04263	22511856	65	Wire	Cu	0.83	SPE	3.70	92	Cu	4.35	-	-	-	LSFH1)	6.10	black	4.70	0.50	1	U17	U15
		66																			

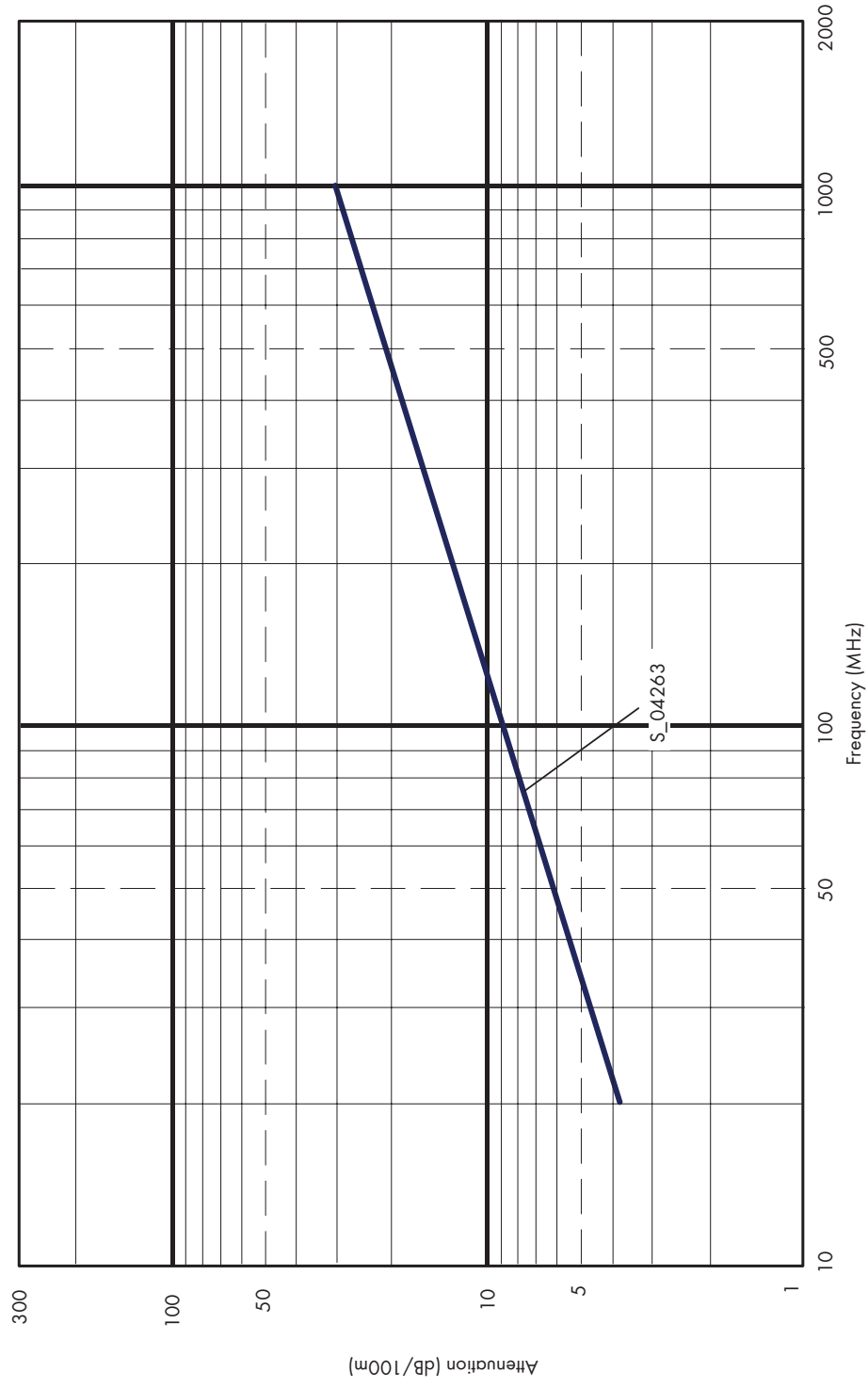
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free RF coax cables, low loss types, single screen, 75 Ω

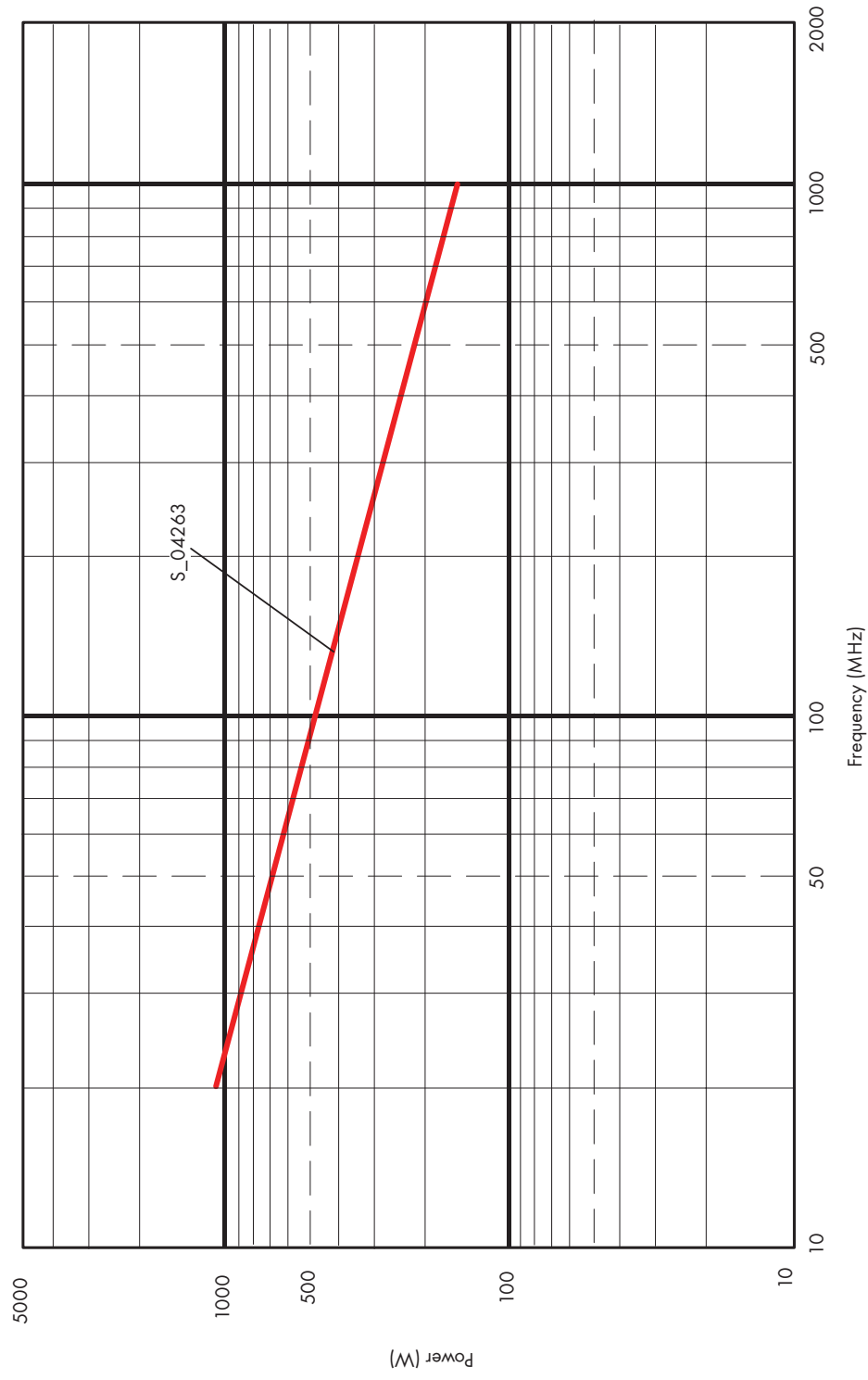
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, low loss types, single screen, 75 Ω

typical values at +40 °C ambient temperature



Halogen free RF coax cables

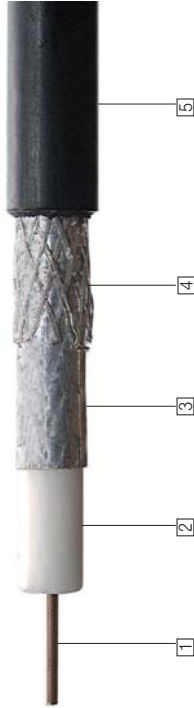
double screen

75 Ω

Low loss, +85 °C

Impedance	75 Ω
Capacitance	54 pF/m
Velocity of signal propagation	82 % of the speed of light
Signal delay	4.1 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø/with foil 10 x Ø jacket 5
Min. bending radius dynamic	15 x Ø/with foil 20 x Ø jacket 5
Temperature range standard cables	-40 °C to +85 °C
Screening effectiveness	≥ 80 dB at 2 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm				crimp	clamp
S_05163-02	23003405	68 and 69	Wire	Cu	1.00	SPE	4.57	ALPES	4.65	100	CuSn	5.40	5.30	0.50	2	-	-
S_07273-01	22510550		Wire	SiCu	1.57	SPE	7.25	ALPES	7.45	100	CuSn	8.10	7.90	1.00	2	-	-

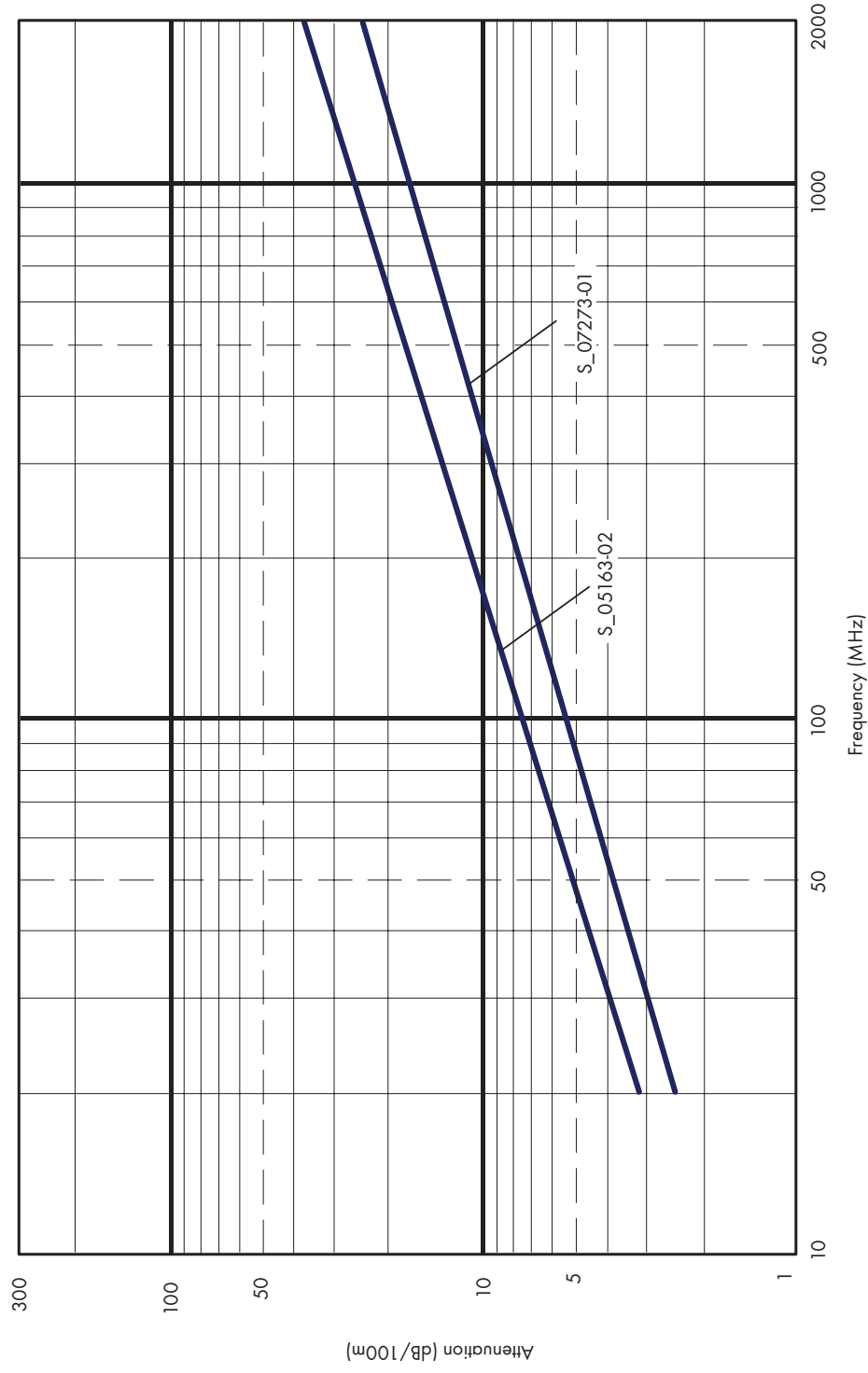
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Halogen free coax cables, low loss types, double screen, 75 Ω

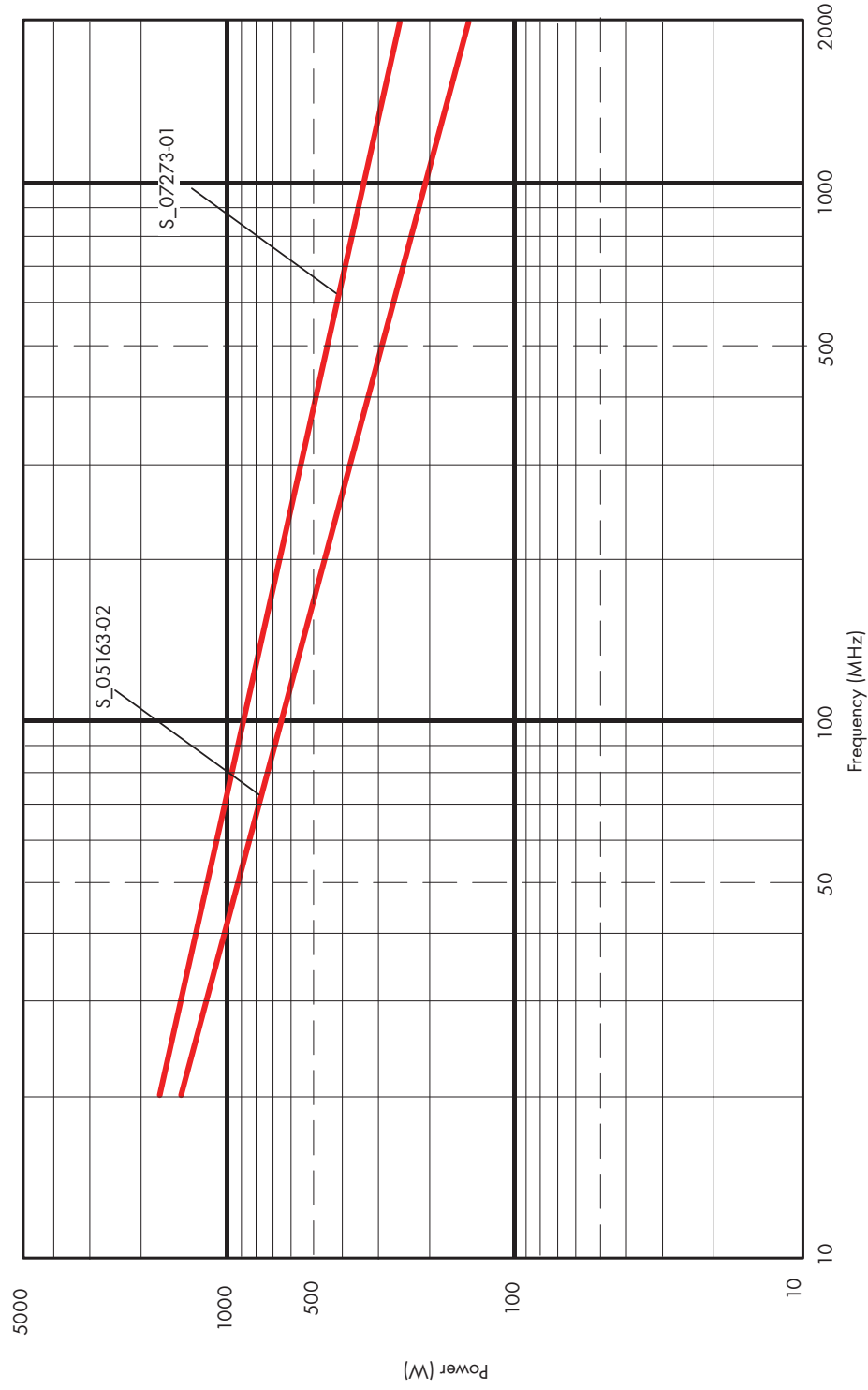
typical values at +20 °C ambient temperature



Power

Halogen free RF coax cables, low loss types, double screen, 75 Ω

typical values at +40 °C ambient temperature



ENVIROFLEX, the halogen free alternative to conventional PTFE coax cables

50 Ω

Impedance	50 Ω
Capacitance	94 pF/m
Velocity of signal propagation	69 % of the speed of light
Signal delay	4.8 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket 5
Min. bending radius dynamic	15 x Ø jacket 5
Temperature range	-40 °C to +105 °C, acc. UL style 3651

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.

All ENVIROFLEX types mentioned on this page are UL recognised.



H+S type	Item no.	Center conductor	Dielectric		Screen 1		Screen 2		Jacket		Weight	Operating voltage	Max. oper. freq.	Screen. effect.	Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	kg/100 m	kV	MHz	crimp	clamp
EF_178	23010656	Strand-7	SiCuAg	0.305	SPEX	0.82	95	-	-	-	1.84	0.65	1.0	3	U1	U1
EF_178_D	23030426	Strand-7	SiCuAg	0.305	SPEX	0.82	96	CuAg	1.85	92	2.45	1.12	1.0	6	-	-
EF_178-01	84032838	Strand-7	SiCuAg	0.305	SPEX	0.82	95	-	-	-	1.84	0.65	1.0	3	U1	U1
EF_316	23009565	Strand-7	SiCuAg	0.54	SPEX	1.54	99	-	-	-	2.54	1.60	1.5	3	U2	U2
EF_316_D	22512281	Strand-7	SiCuAg	0.54	SPEX	1.54	96	CuAg	2.50	90	3.16	2.10	1.5	6	U4	U4
EF_316_D-01	84011098	Strand-7	SiCuAg	0.54	SPEX	1.54	96	CuAg	2.50	90	3.16	2.10	1.5	6	U4	U4
EF_316-03	84027942	Strand-7	SiCuAg	0.54	SPEX	1.54	99	-	-	-	2.52	1.60	1.5	3	U2	U2
EF_142	22512168	Wire	CuAg	0.95	SPEX	2.98	97	CuAg	4.18	95	5.00	6.00	2.5	6	U9	U10
EF_400	22512280	Strand-19	CuAg	1.00	SPEX	3.03	96	CuAg	4.24	91	5.00	6.00	2.5	6	U11	U10
EF_400-01	84008746	Strand-19	CuAg	1.00	SPEX	3.03	96	CuAg	4.24	91	5.00	6.00	2.5	6	U11	U10
EF_393	22512282	Strand-7	CuAg	2.46	SPEX	7.35	92	CuAg	8.75	99	10.10	18.00	5.0	6	U33	U33

* for suitable connectors

EF = ENVIROFLEX

** black with blue line

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

ENVIROFLEX, the halogen free alternative to conventional PTFE coax cables 75 Ω

Impedance	75 Ω
Capacitance	63 pF/m
Velocity of signal propagation	69 % of the speed of light
Signal delay	4.8 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Screening effectiveness	≥ 40 dB up to 1 GHz
Temperature range	-40 °C to +105 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.

All ENVIROFLEX types mentioned on this page are UL recognised.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm					
ENVIROFLEX_179	23019104	72 and 73	Strand-7	SiCuAg	0.305	SPEX	1.55	94	-	-	RADOX ¹⁾	2.54	1.11	1.50	1	U5	clamp
ENVIROFLEX_179-01	84021688		Strand-7	SiCuAg	0.305	SPEX	1.55	94	-	-	RADOX ¹⁾	2.54	1.11			U5	U5

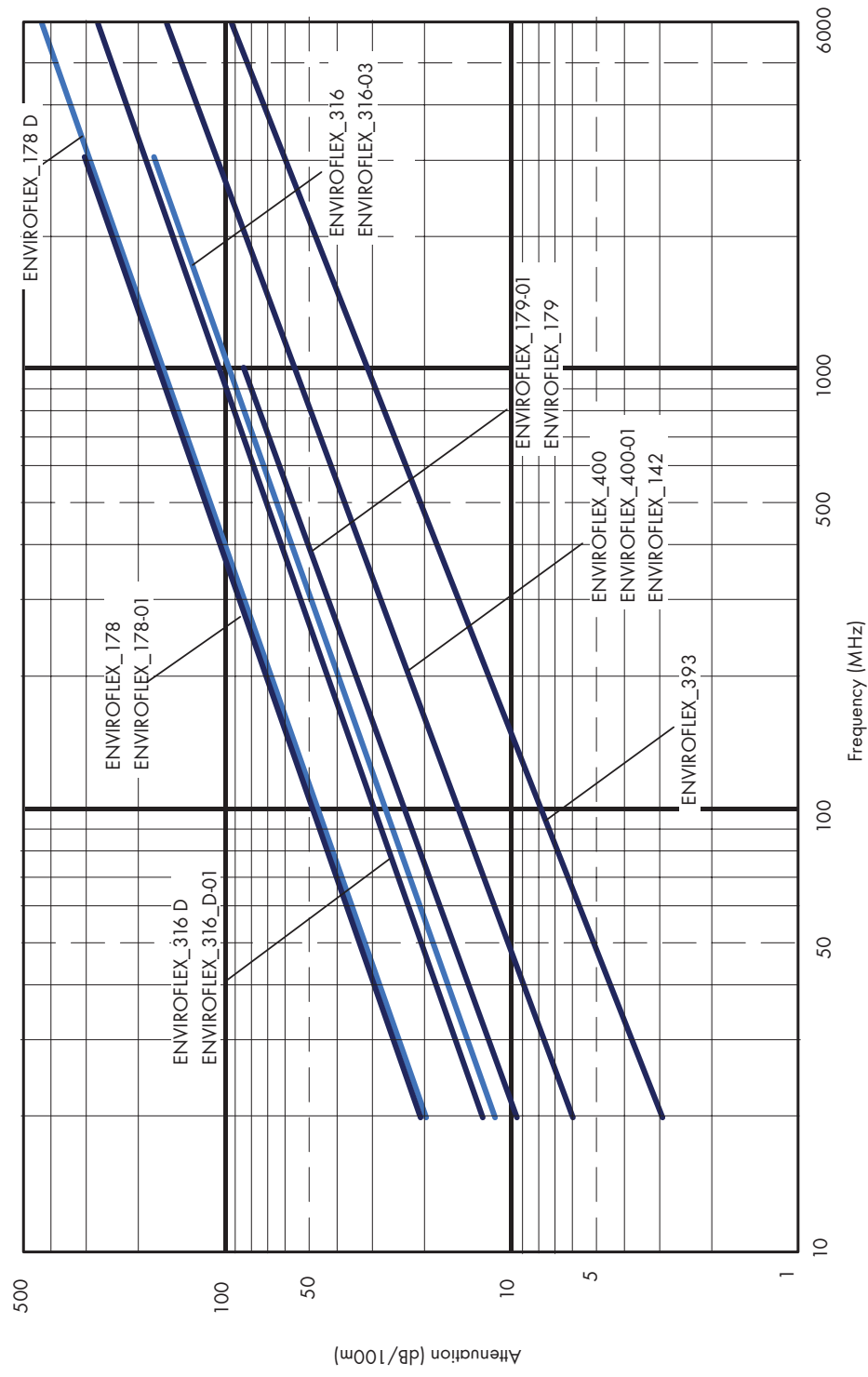
* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

ENVIROFLEX RF coax cables, 50 and 75 Ω

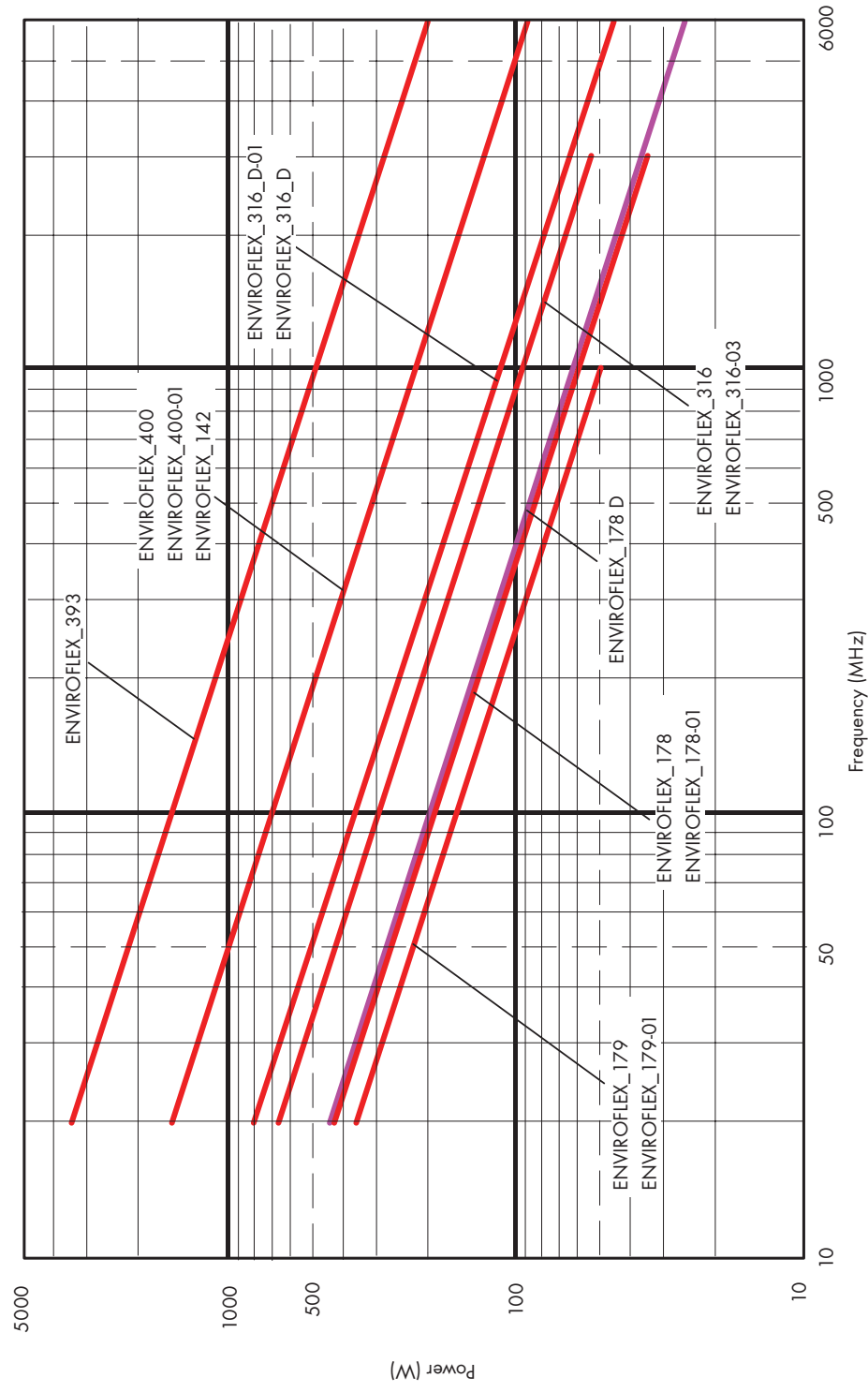
typical values at +20 °C ambient temperature



Power

ENVIROFLEX RF coax cables, 50 and 75 Ω

typical values at +40 °C ambient temperature



Railway approved RF coax cables

50 and 75 Ω

H+S type	GX_03272-04		GX_04273-12	
	GX_07272			
	GX_07272_D-04			
	50 Ω		75 Ω	
Impedance			75 Ω	
Capacitance	101 pF/m		67 pF/m	
Velocity of signal propagation	66 % of the speed of light		66 % of the speed of light	
Signal delay	5.0 ns/m		5.0 ns/m	
Insulation resistance	>10 ⁸ MΩm		>10 ⁸ MΩm	
Min. bending radius static	5 x Ø jacket [5]		5 x Ø jacket [5]	
Min. bending radius dynamic	15 x Ø jacket [5]		15 x Ø jacket [5]	
Temperature range	-40 °C to +105 °C		-40 °C to +105 °C	

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.

H+S type	Item no.	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm					
ENVIROFLEX_179 ¹⁾	23019104	Strand-7	SiCuAg	0.31	SPEX	1.55	94	-	-	RADOX ¹⁾	2.54	1.11	1.50	1	U5	U5
	22512309	Strand-19	CuSn	0.94	PEX	2.95	96	-	-	RADOX GW-S ¹⁾	4.95	4.04	2.50	2	U7	U7
ENVIROFLEX_142 ²⁾	22512168	Wire	CuAg	0.95	SPEX	2.98	97	CuAg	4.16	95	black/blue**	6.00	2.50	6	U9	U10
	22512280	Strand-19	CuAg	1.00	SPEX	3.03	96	CuAg	4.24	91	black/blue**	6.00	2.50	6	U11	U10

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

* Specific cables for railway applications only (RADOX GW-S). COC of DIN 5510-2 available

** black with blue line

1) 75 Ohm, electrical data see page 71

2) 50 Ohm, electrical data see page 70

Railway approved RF coax cables

50 and 75 Ω

H+S type	Item no.	Curves see page	Center conductor [1]			Dielectric [2]		Screen 1 [3]			Screen 2 [4]			Jacket [5]		Weight kg/ 100 m	Operating voltage kV	Max. oper. freq.	Cable group		
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Colour			crimp	clamp	
ENVIROFLEX_316_D	22512281	76 and 77	Strand-7	SiCuAg	0.54	SPEX	1.54	96	CuAg	2.03	96	CuAg	2.5	90	3.16	black/blue**	2.10	1.50	6	U4	U4
GX_04273-12	23029791		Strand-7	CuSn	0.66	PEX	3.83	95	CuSn	4.45	95	-	-	-	6.10	black	5.70	3.00	1	U16	U15
SX_04172_B-60 ^{al}	84026748		Wire	CuAg	1.40	SPEX	3.80	Al/PES	4.0	CuSn	4.53	86	RADOX ¹⁾	5.50	black	4.78	0.70	6	-	-	-
GX_07272	22510708		Strand-7	Cu	2.25	PEX	7.25	CuAg	8.15	95	-	95	RADOX ¹⁾	10.30	black	16.10	5.00	2	U29	U28	
GX_07272_D-04	22511988	76 and 77	Strand-7	CuAg	2.25	PEX	7.25	93	CuAg	8.00	93	CuAg	8.70	95	10.80	black	20.20	5.00	6	U32	U33
ENVIROFLEX_393	22512282		Strand-7	CuAg	2.46	SPEX	7.35	CuAg	8.00	92	CuAg	8.75	99	LSFH ¹⁾	10.10	black/blue**	18.00	5.00	6	U33	U33
S_10162_B-11	23002145		Wire	CuAl	3.80	SPE	9.90	Cu	100	Cu	10.00	80	Cu	10.80	black	15.00	1.70	7.5	S39	-	-
SUCOFEEED_1/2_HF_FR	22512163		Wire	CuAl	3.60	SPE	8.80	Cu	100	Cu	12.20	100	-	-	13.40	grey/black	24.00	1.27	10	-	-

* for suitable connectors

¹⁾ Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

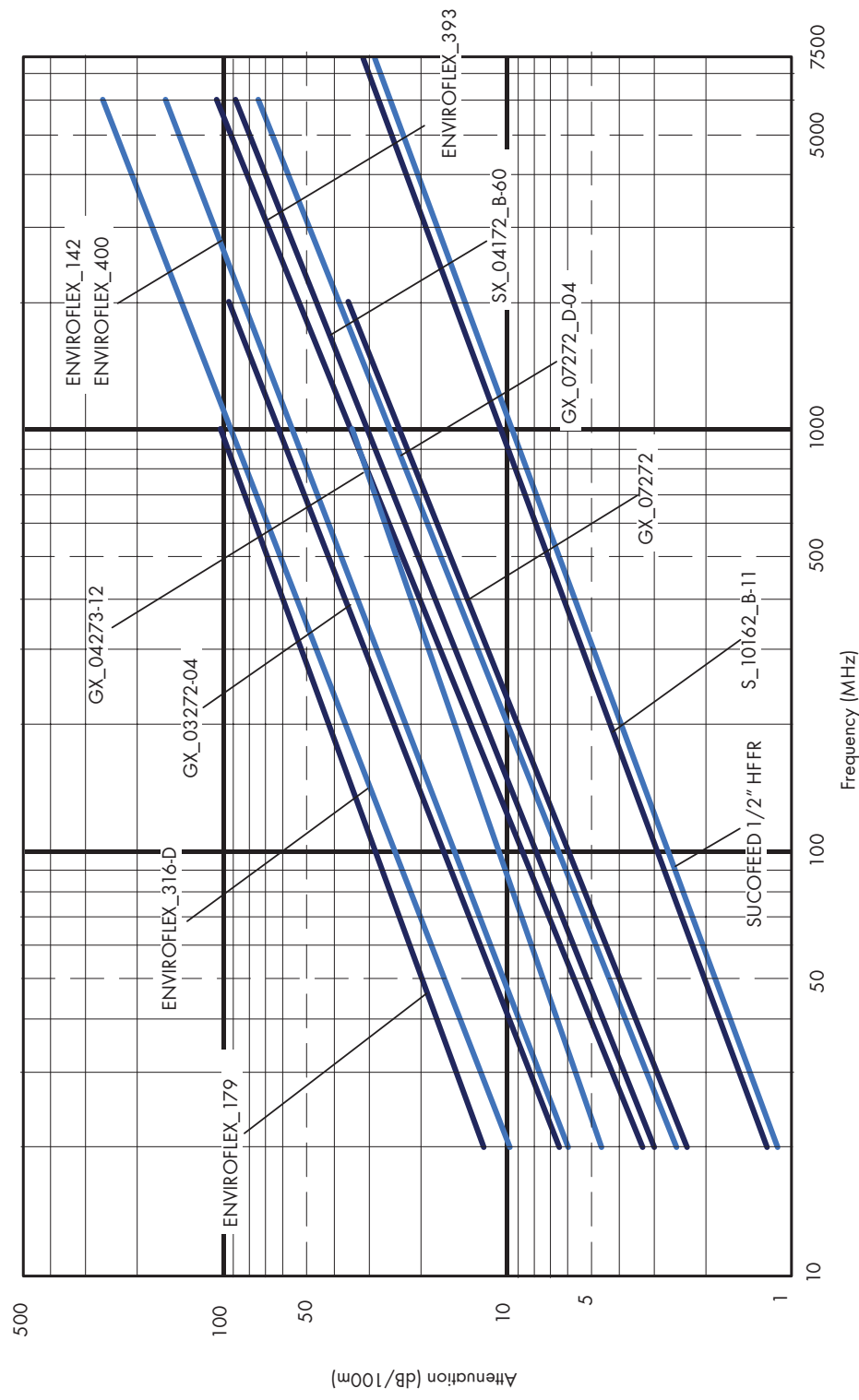
** black with blue line

b) UL recognised (see UL types page 117)

Attenuation

Railway approved RF coax cables, 50 and 75 Ω

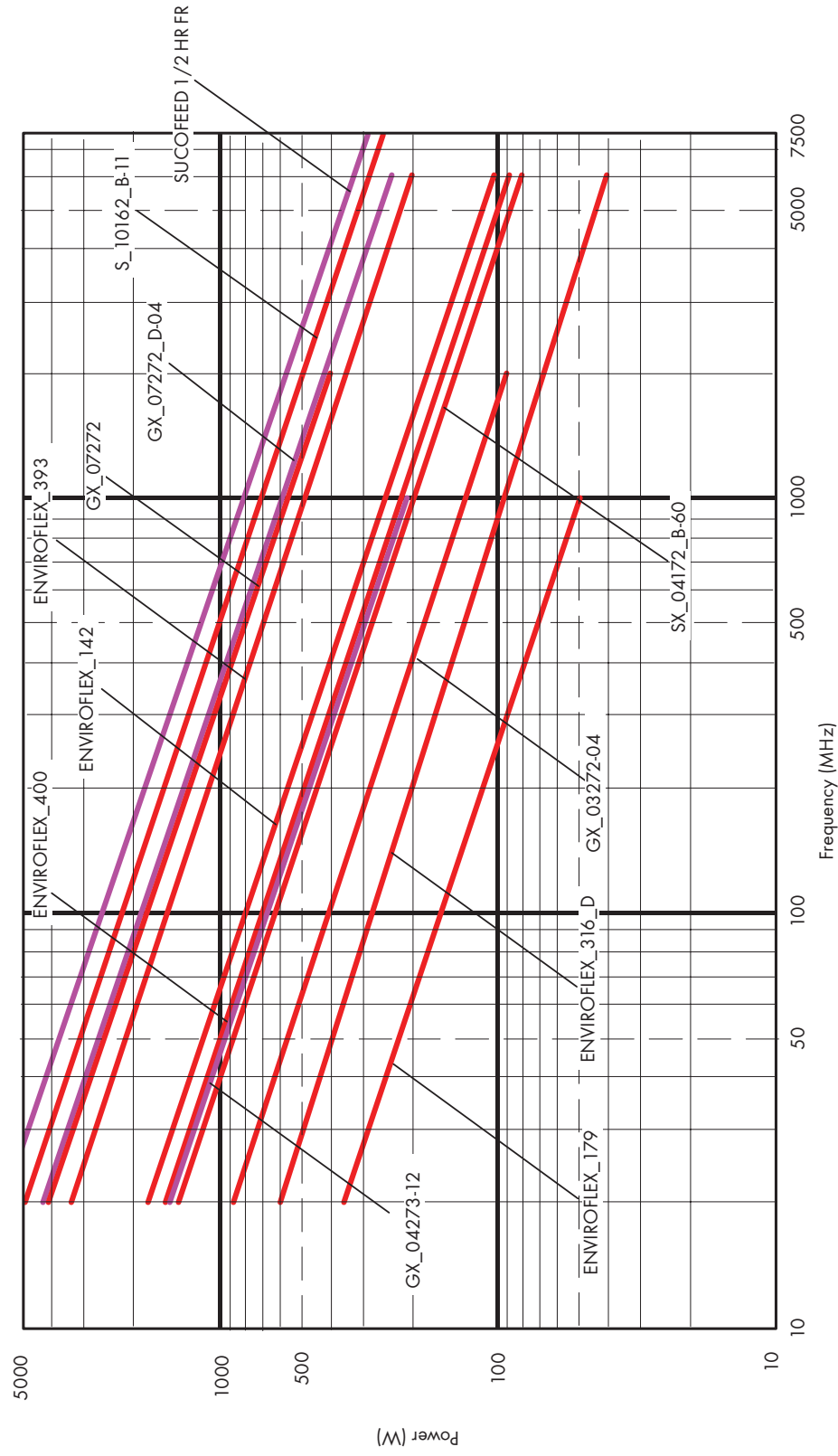
typical values at +20 °C ambient temperature



Power

Railway approved RF coax cables, 50 and 75 Ω

typical values at +40 °C ambient temperature



Halogen free
Railway cables
50 Ω /75 Ω

RF railway - cable selection list

Cable type	Item no.	Frequency (GHz)	Impedance (Ω)	Replacement for	DIN 5510-2 EN60332-1-2 EN61034-2
GX_0327204	22512309	2	50	RG_58_C/U	passed
GX_04273-12	23029791	1	75	RG_59_C/U	passed
GX_07272	22510708	2	50	RG_213_/U	passed
GX_07272_D-04	22511988	6	50	RG_214_/U	passed
S_10162_B-11	23002145	7.5	50		passed
ENVIROFLEX_179	23019104	1	75	RG_179_B/U	passed
ENVIROFLEX_142	22512168	6	50	RG_142_B/U	passed
ENVIROFLEX_400	22512280	6	50	RG_400_B/U	passed
ENVIROFLEX_393	22512282	6	50	RG_393_/U	passed
ENVIROFLEX_316_D	22512281	6	50	RG_316_D	passed
SUCOFEEED_1/2" HF FR	22512163	10	50		passed
SX_04172_B60	84026748	6	50	LMR-240	passed



Order your copy of the detailed
catalogue, item no. 644802



Halogen free
Railway cables
50Ω/75Ω

High temperature RF coax cables

single screen

50 Ω

High temperature, +165 °

Impedance	50 Ω
Capacitance	97 pF/m
Velocity of signal propagation	69 % of the speed of light
Signal delay	4.80 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range	-65 °C to +165 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m		Operating voltage kV		Max. oper. freq.		Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour	kg/100 m	Operating voltage kV	Max. oper. freq.	crimp	clamp		
K_01152-07 ^{a)}	22511192	83 and 84	Strand-7	CuAg	0.19	PFA	0.52	CuAg	0.90	87	-	-	white	0.90	0.45	1	U0	-	U0	-
K_02232-03 ^{b)}	22512207		Strand-7	SiCuAg	0.54	PTFE	1.55	CuAg	2.00	94	-	-	black	1.60	0.85	1	U2	U2	U2	U2

* for suitable connectors

- a) temperature range: -80 °C to +165 °C
- b) temperature range: -25 °C to +105 °C

High Temp.
50Ω/75Ω

High temperature RF coax cables

single screen

50 Ω

H+S type	Item no.	Curves see page	Center conductor [1]				Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/ 100 m	Operating voltage kV	Max. oper. freq.	Cable group	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour				crimp	clamp
RG_178_B/U	22510043	83 and 84	Strand-7	SiCuAg	0.31	PTFE	0.83	95	-	-	-	FEP	1.80	brown	0.84	1.00	1	U1	U1
RG_196_A/U	22510049		Strand-7	SiCuAg	0.31	PTFE	0.83	96	-	-	-	PFA	1.83	white	0.92	1.00	1	U1	U1
RG_188_A/U	22510046		Strand-7	SiCuAg	0.54	PTFE	1.55	94	-	-	-	PFA	2.60	white	1.70	0.85	1	U2	U2
RG_188_A/U01	22510047		Strand-7	SiCuAg	0.54	FEP	1.55	96	-	-	-	FEP	2.50	brown	1.70	1.45	1	U2	U2
RG_188_A/U-60 ^{d)}	22511839		Strand-7	SiCuAg	0.54	PTFE	1.55	94	-	-	-	FEP	2.60	white	1.70	0.85	1	U2	U2
RG_316_/U	22510079		Strand-7	SiCuAg	0.54	PTFE	1.55	95	-	-	-	FEP	2.50	brown	1.60	0.85	3	U2	U2
RG_303_/U	22510078		Wire	SiCuAg	0.95	PTFE	2.95	97	-	-	-	FEP	4.30	brown	4.48	1.70	1	U7	U7
K_07252	22510234			CuAg	2.46	FEP	7.25	97	-	-	-	FEP	9.10	black	19.50	6.70	1	-	-

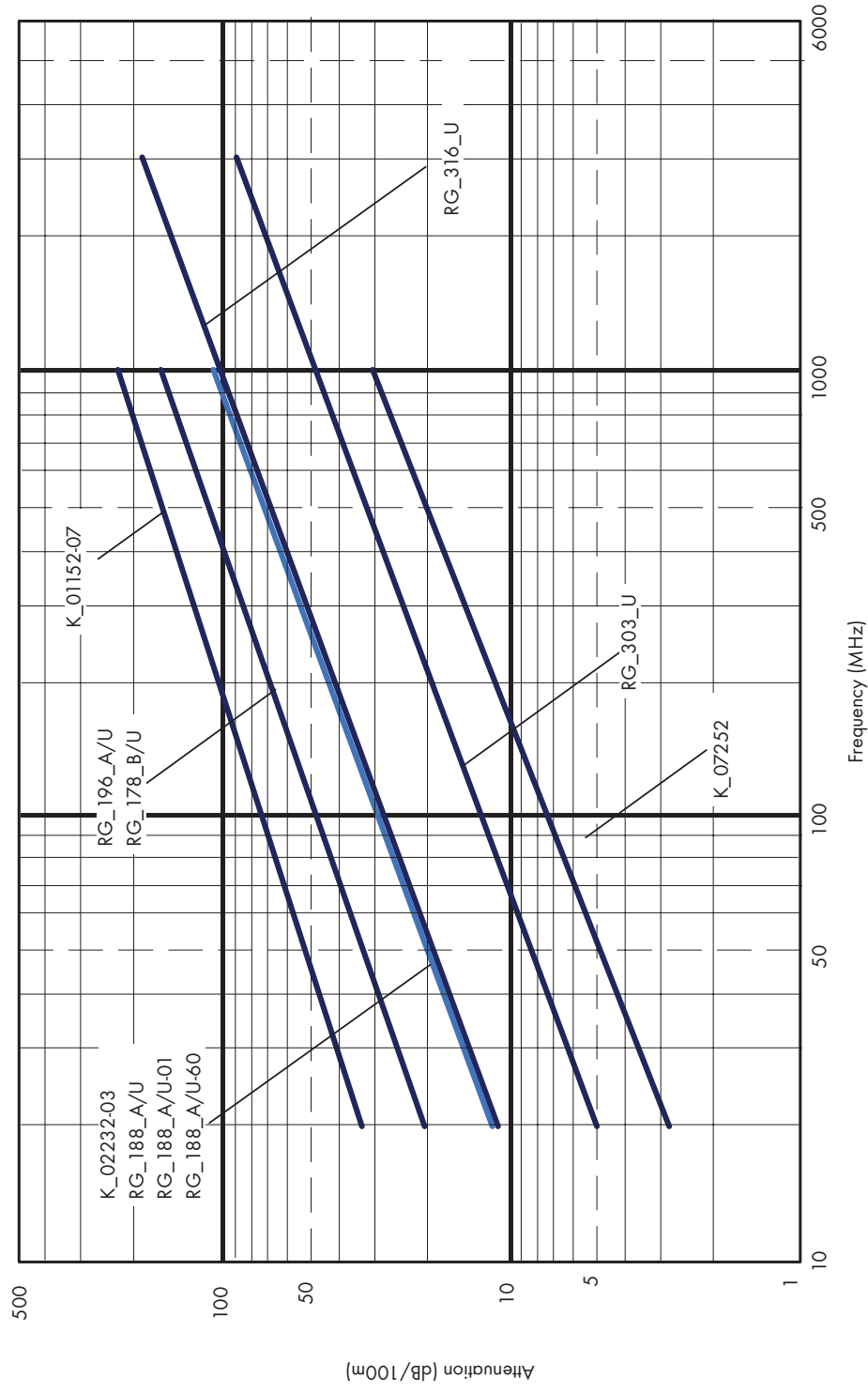
* for suitable connectors

a) UL recognised (see UL types page 117)

Attenuation

High temperature RF coax cables, single screen, 50 Ω

typical values at +20 °C ambient temperature

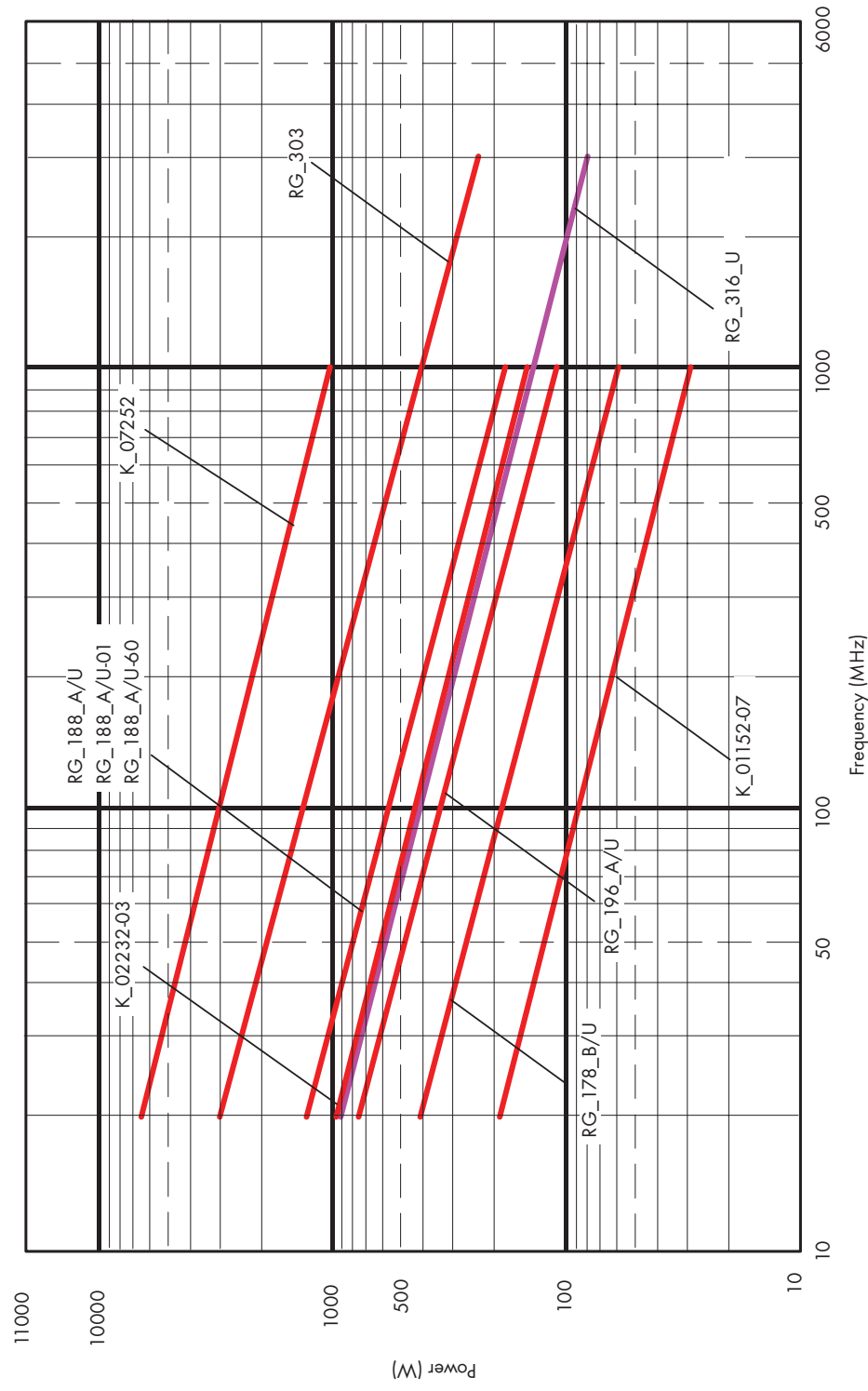


High Temp.
50 Ω /75 Ω

Power

High temperature RF coax cables, single screen, 50 Ω

typical values at +40 °C ambient temperature



High temperature, radiation resistant RF coax cables single screen 50 Ω

High temperature -180 °C up to +250 °C

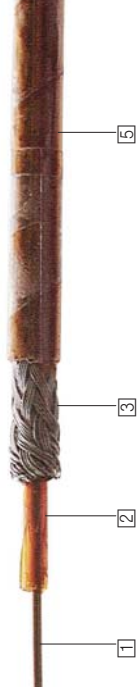


Radiation resistance:
PEEK = 10⁹ rad
PI (Kapton®)a) = 10⁹ rad
RADOX 125 = 10⁸ rad

H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m		Operating voltage kV		Cable group*	
		Curves see page 86 and 87	Design	Mat.	Dim. mm	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Mat.	Dim. mm	Colour	Max. oper. freq.	Screen. effect.	crimp	clamp
P_02182-01	22512101		Wire	Cu	0.40	1.60	CuAg	2.10	96	-	-	-	light brown	1.50	1	on request	40

* for suitable connectors

High temperature -269 °C up to +350 °C



H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 3		Screen 2 4		Jacket 5		Weight kg/100 m		Operating voltage kV		Cable group*	
		Curves see page 86 and 87	Design	Mat.	Dim. mm	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Mat.	Dim. mm	Colour	Max. oper. freq.	Screen. effect.	crimp	clamp
U_02152	22511194		Wire	SiCu	0.62	2.00	St	2.70	93	-	-	-	brown	1.50	1	on request	40

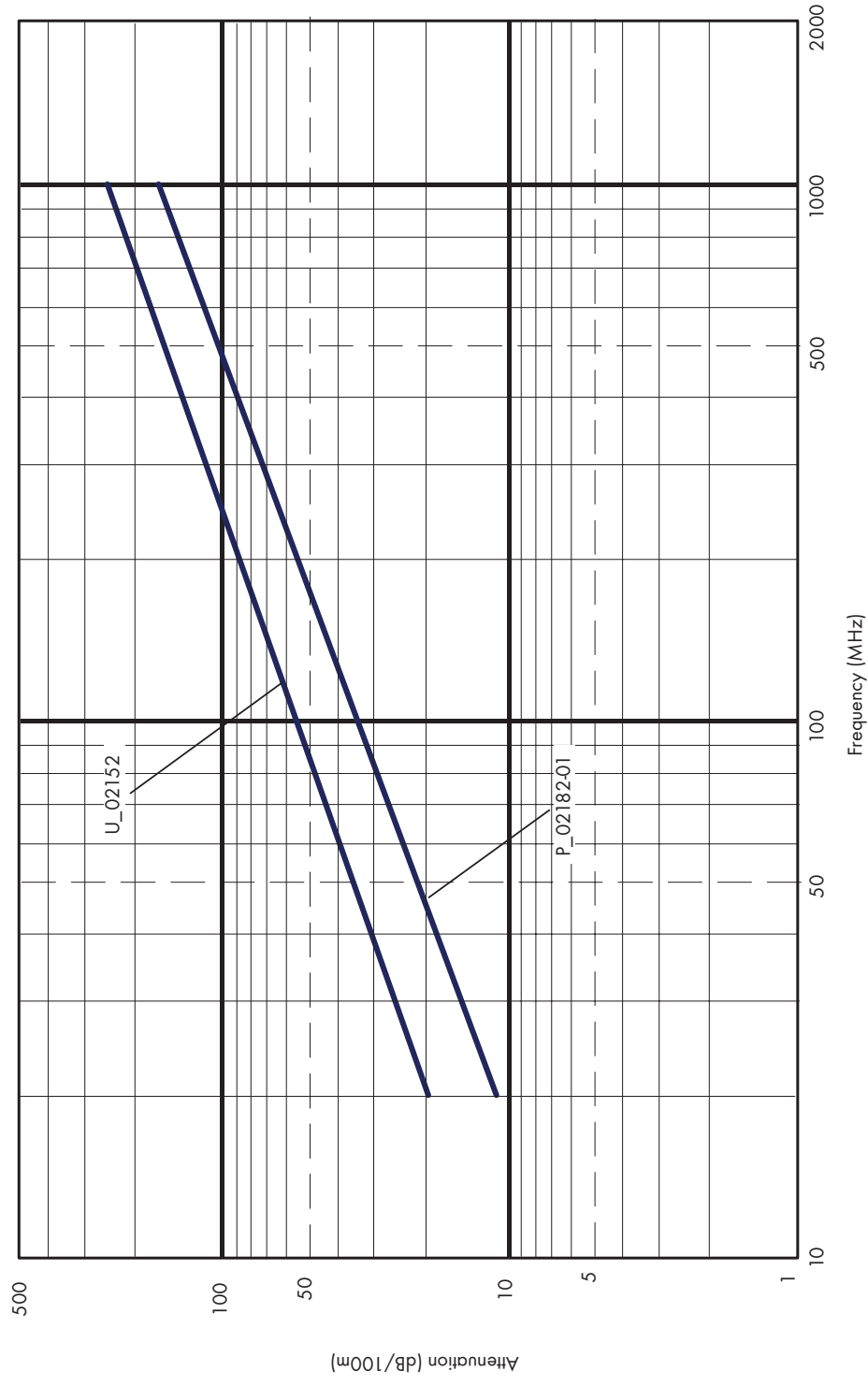
* for suitable connectors

a) PI = Kapton® - DuPont

Attenuation

High temperature, radiation resistant RF coax cables, single screen, 50 Ω

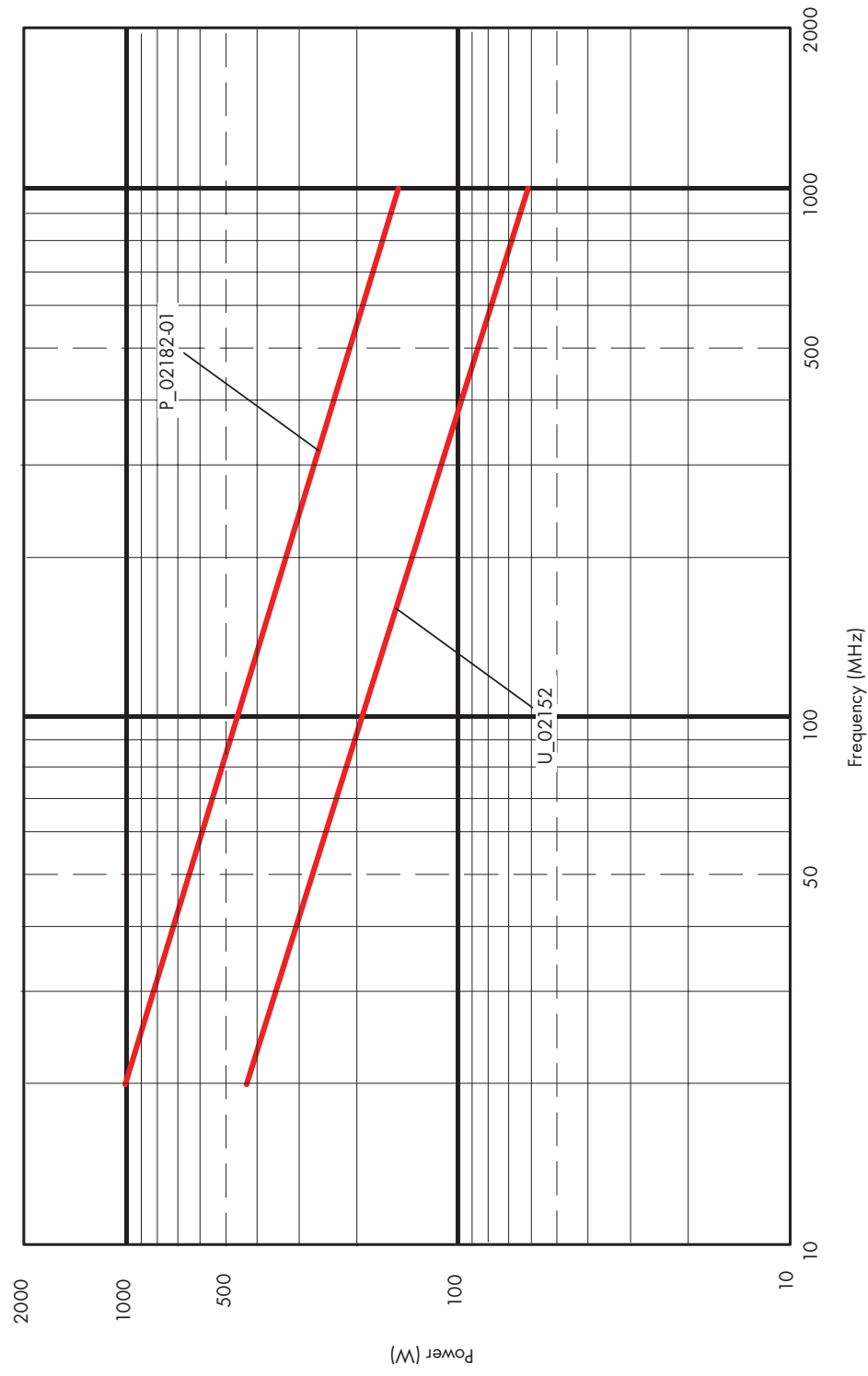
typical values at +20 °C ambient temperature



Power

High temperature, radiation resistant RF coax cables, single screen, 50 Ω

typical values at +40 °C ambient temperature



High Temp.
50 Ω /75 Ω

High temperature RF coax cables

double screen

50 Ω

High temperature, +165 °

Impedance	50 Ω
Capacitance	96 pF/m
Velocity of signal propagation	69 % of the speed of light
Signal delay	4.8 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range	-65 °C to +165 °C
Screening effectiveness	≥80 dB at 6 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group *	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm				crimp	clamp
K_01252_D	22610061	90 and 91	Strand-7	SiCuAg	0.31	PTFE	0.83	95	CuAg	1.83	92	FEP	1.50	0.50	6	-	-
K_02232_D-01 ^{a)}	22511081		Strand-7	SiCuAg	0.54	PTFE	1.55	95	CuAg	2.50	93	PVC(Ul)	2.30	0.85	5	U4	U4
K_02252_D	22510218		Strand-7	SiCuAg	0.54	PTFE	1.55	96	CuAg	2.50	91	FEP	2.40	0.85	6	U4	U4
K_02252_D-08	22511127		Strand-7	CuAg	0.54	FEP	1.54	96	CuAg	2.50	91	FEP	2.40	1.45	6	U4	U4
K_02252_D-60 ^{b)}	22511904		Strand-7	CuAg	0.54	FEP	1.54	96	CuAg	2.50	91	FEP	2.40	1.45	6	U4	U4
K_02252_D-62 ^{b)}	22511857		Strand-7	SiCuAg	0.54	PTFE	1.55	97	CuAg	2.55	97	FEP	2.50	0.85	6	U4	U4
K_03252_D	22610032		Wire	CuAg	0.95	FEP	2.95	95	CuAg	4.25	93	FEP	6.20	2.85	6	U9	U10
K_03252_D-03	22511236		Wire	CuAg	0.95	PTFE	2.95	96	CuAg	4.20	94	FEP	6.40	1.70	6	U9	U10

* for suitable connectors

a) temperature range: -25 °C to +105 °C

b) UL recognised (see UL types page 117)

High temperature RF coax cables

double screen

50 Ω

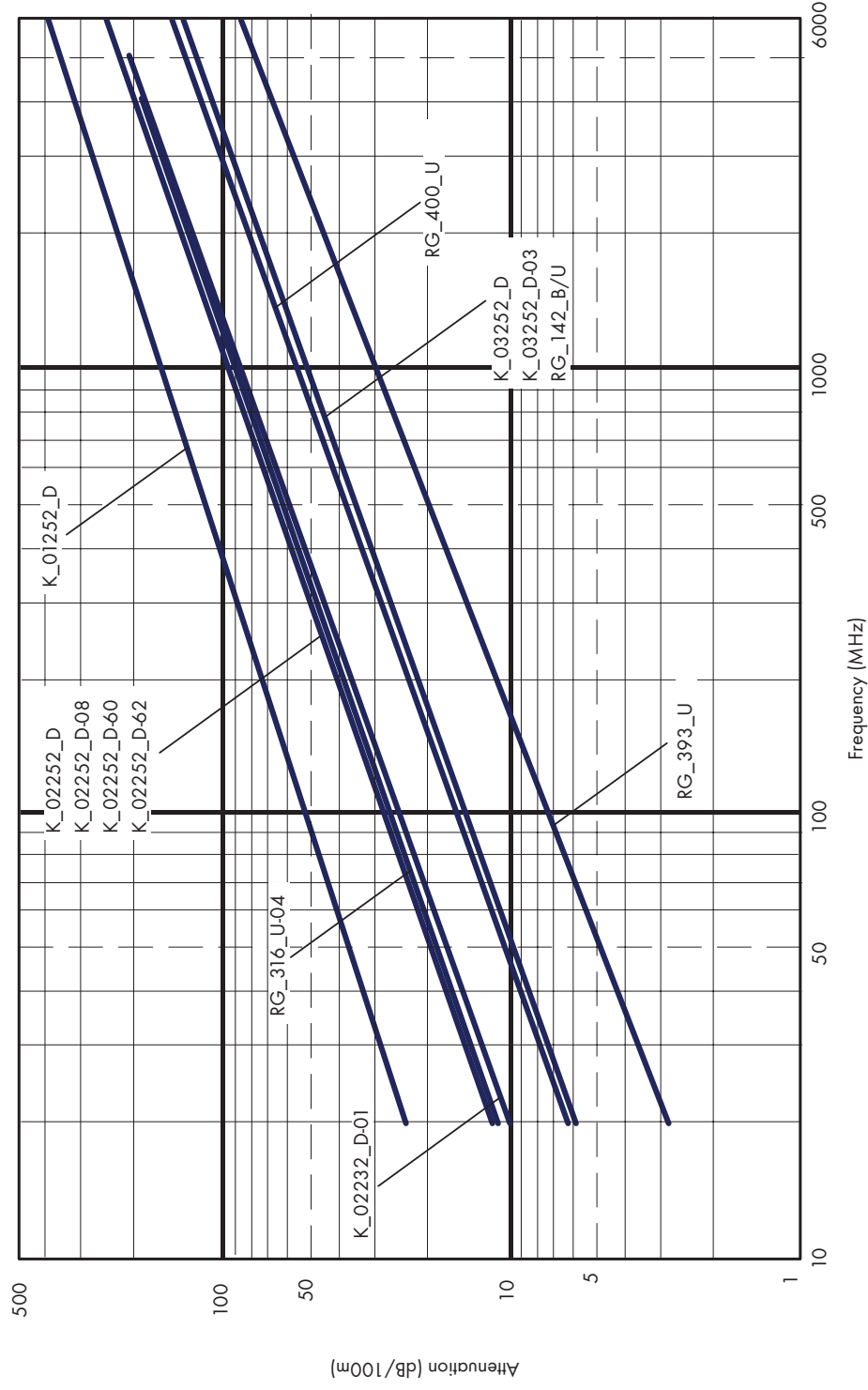
H+S type	Item no.	Center conductor ①		Dielectric ②		Screen 1 ③		Screen 2 ④		Jacket ⑤		Weight kg/ 100 m	Operating voltage kV	Max. oper. freq.	Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour		crimp	clamp
RG_316_/U04	22510610	Strand-7	SiCuAg	0.54	PTFE	1.55	100	CuAg	2.10	94	FEP	2.60	green	1.00	U2	U2
RG_142_B/U	22510037	Wire	SiCuAg	0.95	PTFE	2.95	97	CuAg	4.25	94	FEP	4.95	brown	2.50	U9	U10
RG_400_/U	22510080	Strand-19	CuAg	1.00	PTFE	2.95	97	CuAg	4.20	94	FEP	4.95	brown	1.70	U11	U10
RG_393_/U	22511430	Strand-7	CuAg	2.46	PFA	7.25	92	CuAg	8.75	94	FEP	9.90	brown	4.10	U33	-

* for suitable connectors

Attenuation

High temperature RF coax cables, double screen, 50 Ω

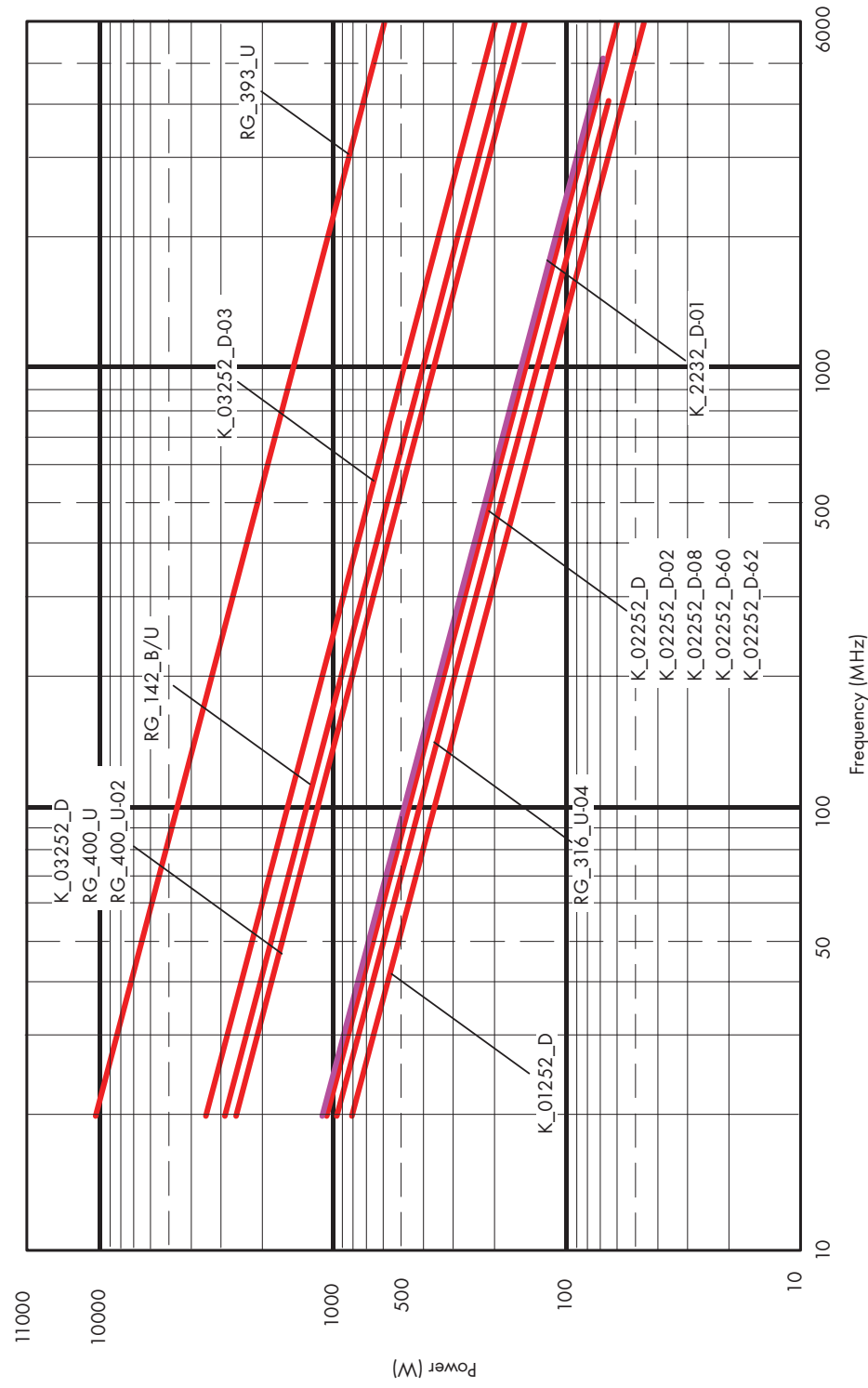
typical values at +20 °C ambient temperature



Power

High temperature RF coax cables, double screen, 50 Ω

typical values at +40 °C ambient temperature



High Temp.
50 Ω /75 Ω

High temperature RF coax cables

single screen

75 Ω

High temperature up to +165°

Impedance	75 Ω
Capacitance	63 pF/m
Velocity of signal propagation	69 % of the speed of light
Signal delay	4.8 ns/m
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø jacket [5]
Min. bending radius dynamic	15 x Ø jacket [5]
Temperature range standard cables	-65 °C to + 165 °C
Screening effectiveness	≥ 40 dB up to 1 GHz

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



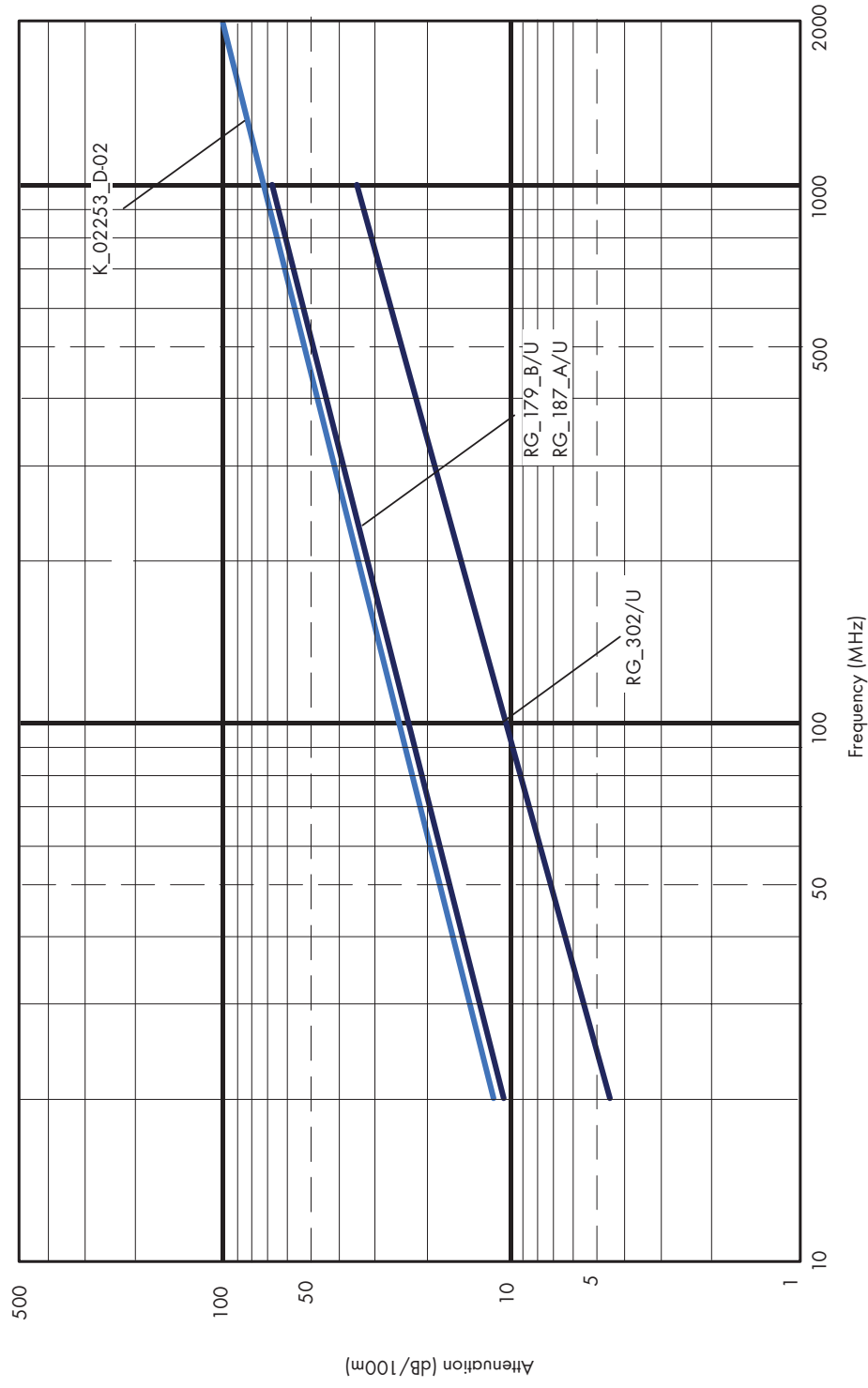
H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Screen 2 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp
RG_179_B/U	22510044	94 and 95	Strand-7	SiCuAg	0.31	PTFE	1.55	CuAg	2.00	94	-	-	brown	1.48	1	U5	U5
RG_187_A/U	22510045		Strand-7	SiCuAg	0.31	PTFE	1.55	CuAg	2.00	94	-	-	white	1.60	1	U5	U5
RG_302_/U	22510077		Wire	SiCuAg	0.63	PTFE	3.70	CuAg	4.35	91	-	-	brown	1.60	0.85	1	U5

* for suitable connectors

Attenuation

High temperature RF coax cables, single and double screen, 75 Ω

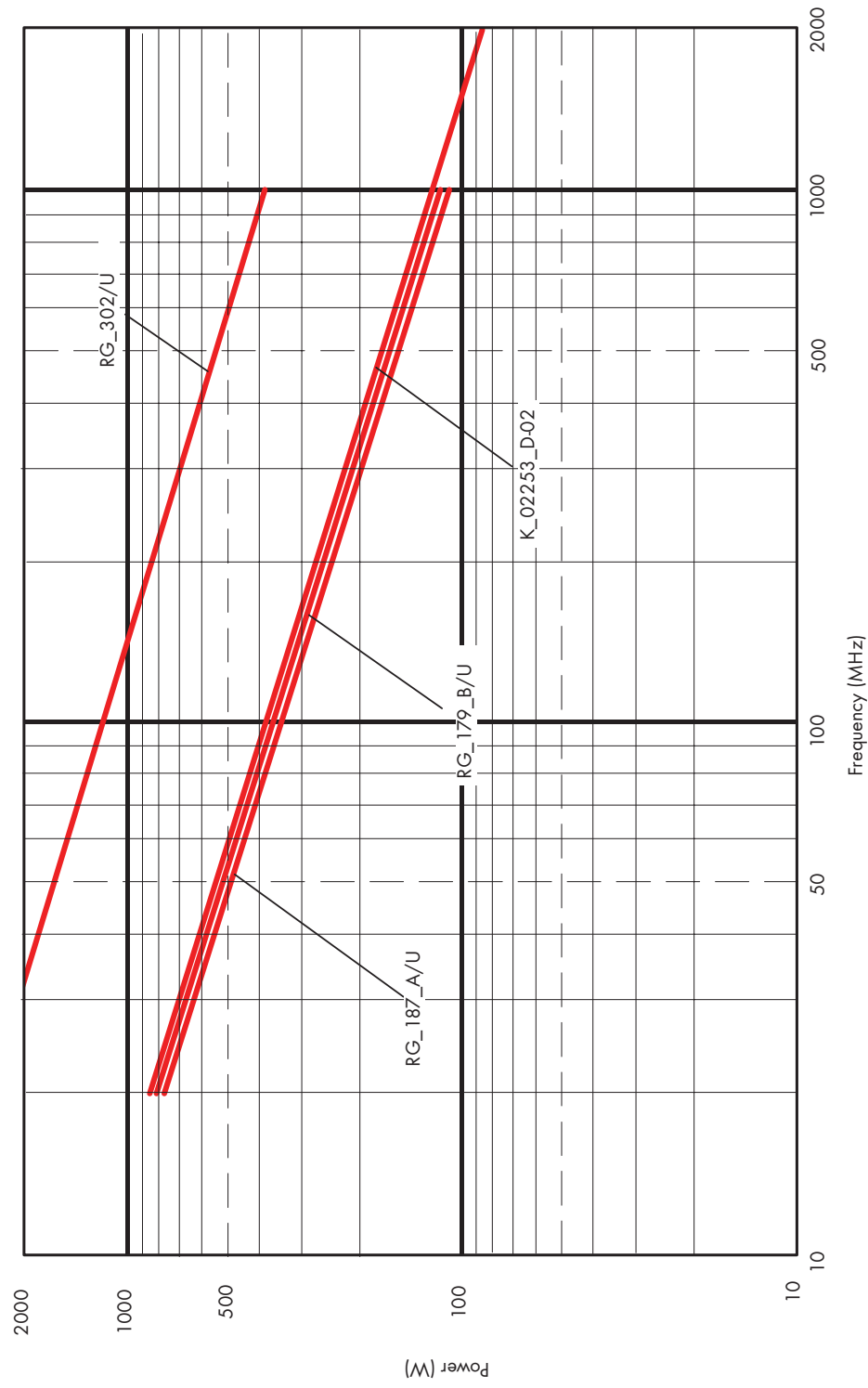
typical values at +20 °C ambient temperature



Power

High temperature RF coax cables, single and double screen, 75 Ω

typical values at +40 °C ambient temperature

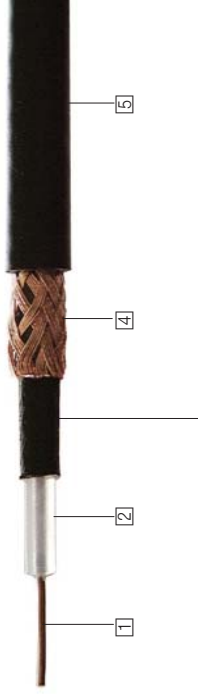


Low noise coax cables

50 Ω

Impedance	50 Ω
Capacity	101 pF/m
Max. operation frequency	1 GHz
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø 5
Min. bending radius dynamic	15 x Ø 5
Temperature range G cables	-25 °C to +85 °C
Temperature range K + RG cables	-65 °C to +165 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



"G" cables: semi-conductor PVC
"K+RG" cables: semi-conductor PTFE

H+S type	Item no.	Center conductor 1		Dielectric 2		Screen 1 4		Jacket 5		Weight kg/100 m	Operating voltage kV	Low noise voltage mV	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %				crimp	clamp
G_01232_HT-02	22512176	Wire	CuAg	0.28	PE	0.87	CuAg	1.70	94	0.80	1.0	20	-	-
RG_404_U	22510964	Strand-7	SiCuAg	0.305	PTFE	0.83	CuAg	1.40	93	0.91	0.75	25	U1	-
G_01130_HT	22510085	Wire	Cu	0.40	PE	1.40	Cu	2.40	91	1.60	1.5	10	U3	-
G_01130_HT-01	22510086	Wire	Cu	0.40	PE	1.40	Cu	2.40	91	1.60	1.5	10	U3	-
G_01130_HT-03^{a)}	22510088	Strand-7	Cu	0.45	PE	1.40	Cu	2.30	91	1.30	1.5	10	U3	-
G_01130_HT-12 ^{a)}	22510732	Strand-7	Cu	0.45	PE	1.40	Cu	2.40	91	1.30	1.5	10	U3	-
G_01130_HT-21	22511567	Strand-7	Cu	0.45	PE	1.40	Cu	2.30	91	1.30	1.5	10	U3	-
G_01130_HT-24	22511866	Strand-7	Cu	0.45	PE	1.40	Cu	2.30	91	1.50	1.0	10	U3	-
K_02252_HK	22510536	Wire	CuAg	0.52	PTFE	1.53	CuAg	1.55	94	1.68	0.8	25	U2	-

* for suitable connectors

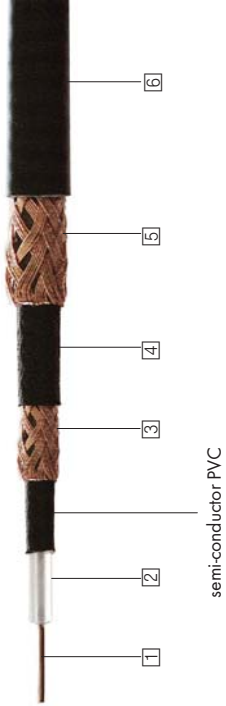
a) no print on jacket

Low noise triax cables

50 Ω

Impedance	50 Ω
Capacity	101 pF/m
Max. operation frequency	1 GHz
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø outer diameter [6]
Min. bending radius dynamic	15 x Ø outer diameter [6]
Temperature range G cables	-25 °C to +85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor		Dielectric		Screen 1		Jacket 1		Screen 2		Jacket 2		Weight kg/100 m	Operating voltage kV	Low noise voltage mV	Cable group *				
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour								
G_01330_HT-28	84012306	Wire	SiCuAg	0.18	PE	0.68	Cu	1.45	89.5	PE	1.95	Cu	2.80	93	PVC	3.30	blue	1.86	10	-	-
G_02330_HT	22510116	Wire	CuSn	0.50	PE	1.50	Cu	2.40	92	PE	3.20	Cu	3.85	92	PVC	5.30	grey	4.50	10	-	-

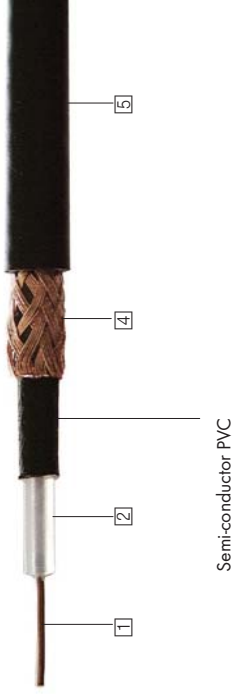
* for suitable connectors

Low noise coax cables

75 Ω

Impedance	75 Ω
Capacity	67 pF/m
Max. operation frequency	1 GHz
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø [5]
Min. bending radius dynamic	15 x Ø [5]
Temperature range G cables	-25 °C to +85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor [1]		Dielectric [2]		Screen 1 [4]		Jacket [5]		Weight kg/100 m	Operating voltage kV	Low noise voltage mV	Cable group *	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Mat.				crimp	clamp
G_03130_HT	22510119	Wire	Cu	0.50	PE	3.00	Cu	4.00	PVC	3.70	2.5	20	U13	-
G_03130_HT-01	22510120	Strand-7	Cu	0.489	PE	2.95	Cu	4.00	PVC	3.60	2.5	100	U13	-
G_03130_HT-03	22510122	Wire	Cu	0.50	PE	3.00	Cu	4.00	PVC	3.60	2.5	20	U13	-
G_03130_HT-07	22510125	Wire	Cu	0.50	PE	3.00	Cu	4.00	PVC	3.70	2.5	20	U13	-
G_03110_HT-08	23037874	Strand-7	Cu	0.49	PE	2.95	Cu	4.00	PUR ¹⁾	3.60	2.5	100	U13	-
G_04233_HT-01	22511337	Wire	SiCu	0.58	PE	3.64	Cu	5.00	PVC	5.40	3.0	50	U18	-
K_03130_HT-02 ^{a)}	22511739	Wire	CuAg	0.52	FEP	3.00	CuAg	4.00	PVC(Ul)	4.60	2.3	100	U13	-

* for suitable connectors

a) temperature range: -25 °C to +105 °C

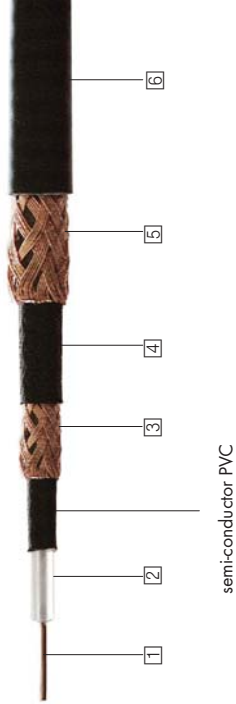
1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Low noise triax cables

75 Ω

Impedance	75 Ω
Capacity	67 pF/m
Max. operation frequency	1 GHz
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø outer diameter [6]
Min. bending radius dynamic	15 x Ø outer diameter [6]
Temperature range	-25 °C to +85 °C

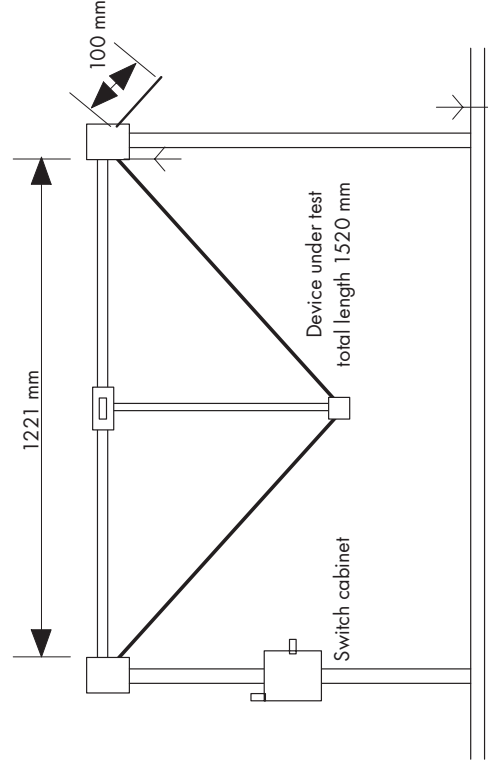
HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor [1]			Dielectric [2]		Screen 1 [3]		Jacket 1 [4]		Screen 2 [5]		Jacket 2 [6]			Weight kg/100 m	Operating voltage kV	Cap. pF/m	Low noise voltage mV	Cable group *			
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour	crimp	clamp								
G_03330_HT-07	22510358	Wire	Cu	0.50	PE	3.00	Cu	4.00	93	PVC	5.00	Cu	5.75	92	PVC	6.90	grey	8.10	1.30	71	20	-	-
G_03330_HT-11	22511103	Wire	Cu	0.50	PE	3.00	Cu	4.00	93	PVC	5.00	Cu	5.75	92	PVC	6.90	black	8.10	1.30	71	20	-	-

* for suitable connectors

Measurement procedure



- When moving a standard coax cable a noise charge will be created. The coating of a low noise cable prevents any electrical voltage generation.
- The highest peak will be detected with the calibrated storage oscilloscope over 8 measurement cycles and should not exceed 5 mV.

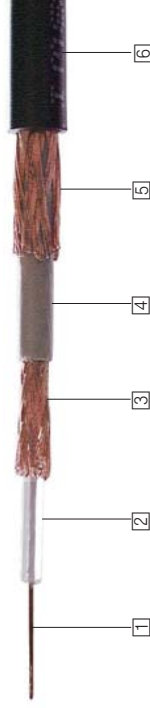
Equipment to measure the noise voltage, acc. MIL-C-17G, § 4.8.14

Triax cables

50 Ω

Impedance	50 Ω
Capacitance	101 pF/m
Max. operation frequency	2 GHz (G_03232 and G_03332-08 up to 1 GHz only)
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø outer diameter [6]
Min. bending radius dynamic	15 x Ø outer diameter [6]
Temperature range G cables	-25 °C to +85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]			Jacket 1 [4]		Screen 2 [5]		Jacket 2 [6]			Weight kg/ 100 m	Operating voltage kV	Cable group *	
			Design	Mat.	Dim. mm	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour			crimp	clamp	
G_02332	22510117	104 and 105	Strand-7	Cu	0.49	PE	1.50	Cu	2.00	Cu	2.55	96	PVC	2.55	black	3.00	1.5	-	W1	
G_02312-03	84016512		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	Cu	2.55	96	PUR ¹⁾	3.05	black	3.00	1.5	-	W1	
G_02332-01	23023565		Strand-7	Cu	0.49	PE	1.50	Cu	2.00	Cu	2.55	96	PVC	3.05	grey	3.00	1.5	-	W1	
G_03362-01 ^{a)}	22511961		Strand-19	CuSn	0.90	PE	2.95	CuSn	3.60	96	LSFH ¹⁾	4.95	96	CuSn	7.20	black	9.70	2.5	-	W2
G_03372 ^{a)}	22511435		Strand-7	Cu	0.93	PE	2.95	Cu	3.60	95	PE ¹⁾	5.00	91	Cu	7.35	black	7.90	2.5	-	-
G_03332	22510149		Strand-7	Cu	0.95	PE	2.95	Cu	3.60	95	PVC	91	PVC	5.00	black	9.00	2.5	-	W2	
G_03332-08	22511387		Strand-7	Cu	0.95	PE	2.95	Cu	3.60	95	PVC	91	PVC	5.00	red	9.00	2.5	-	W2	
G_03372-02 ^{a)}	22511900		Strand-7	Cu	0.95	PE	2.95	Cu	3.60	95	PE ¹⁾	78	PE ¹⁾	9.00	black	14.00	2.5 ^{b)}	-	-	

* for suitable connectors

a) Temperature range: -40 °C to +85 °C

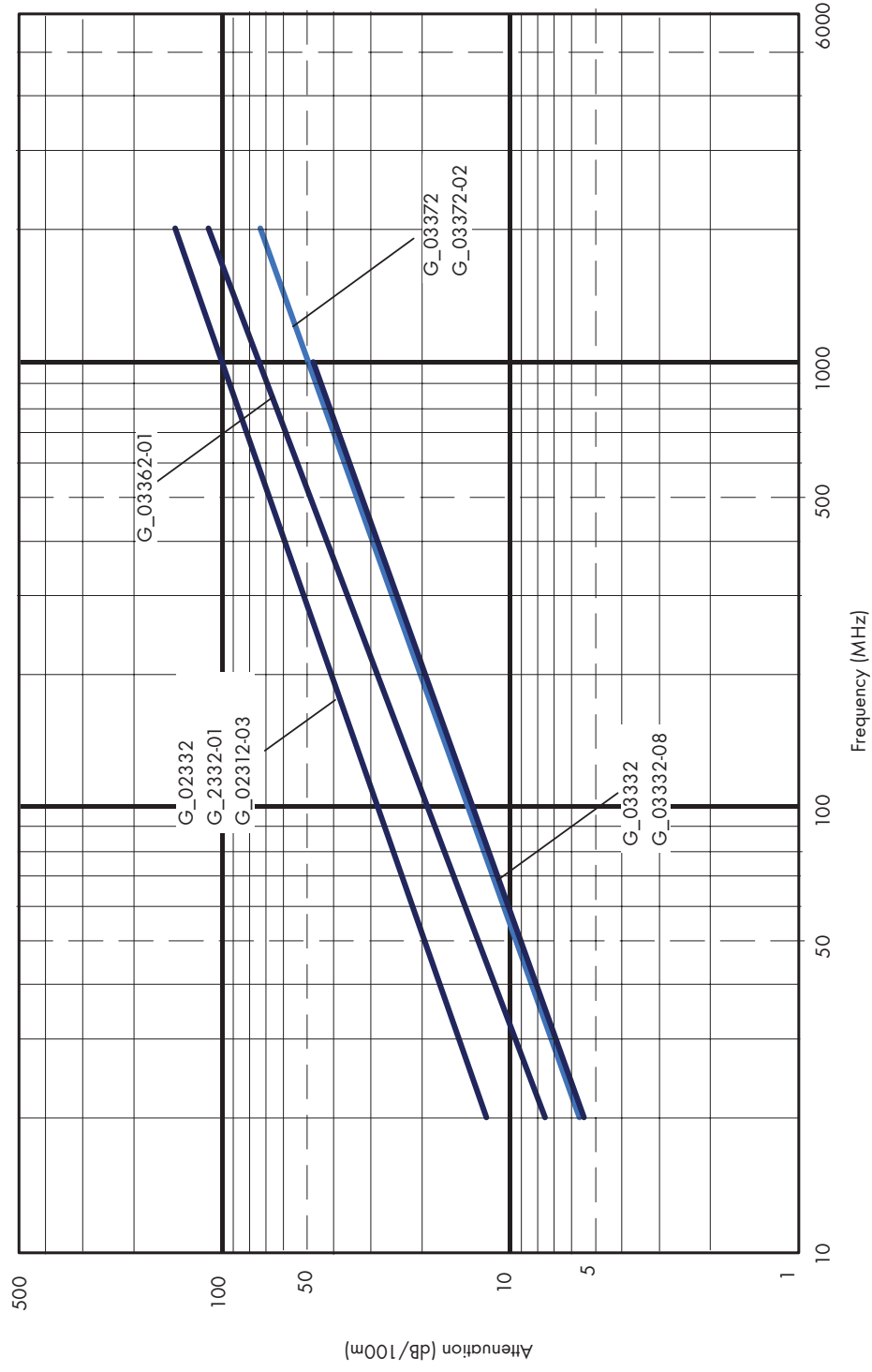
b) 60 kV max. working voltage between screen 1 and 2

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Attenuation

Triax cables, 50 Ω

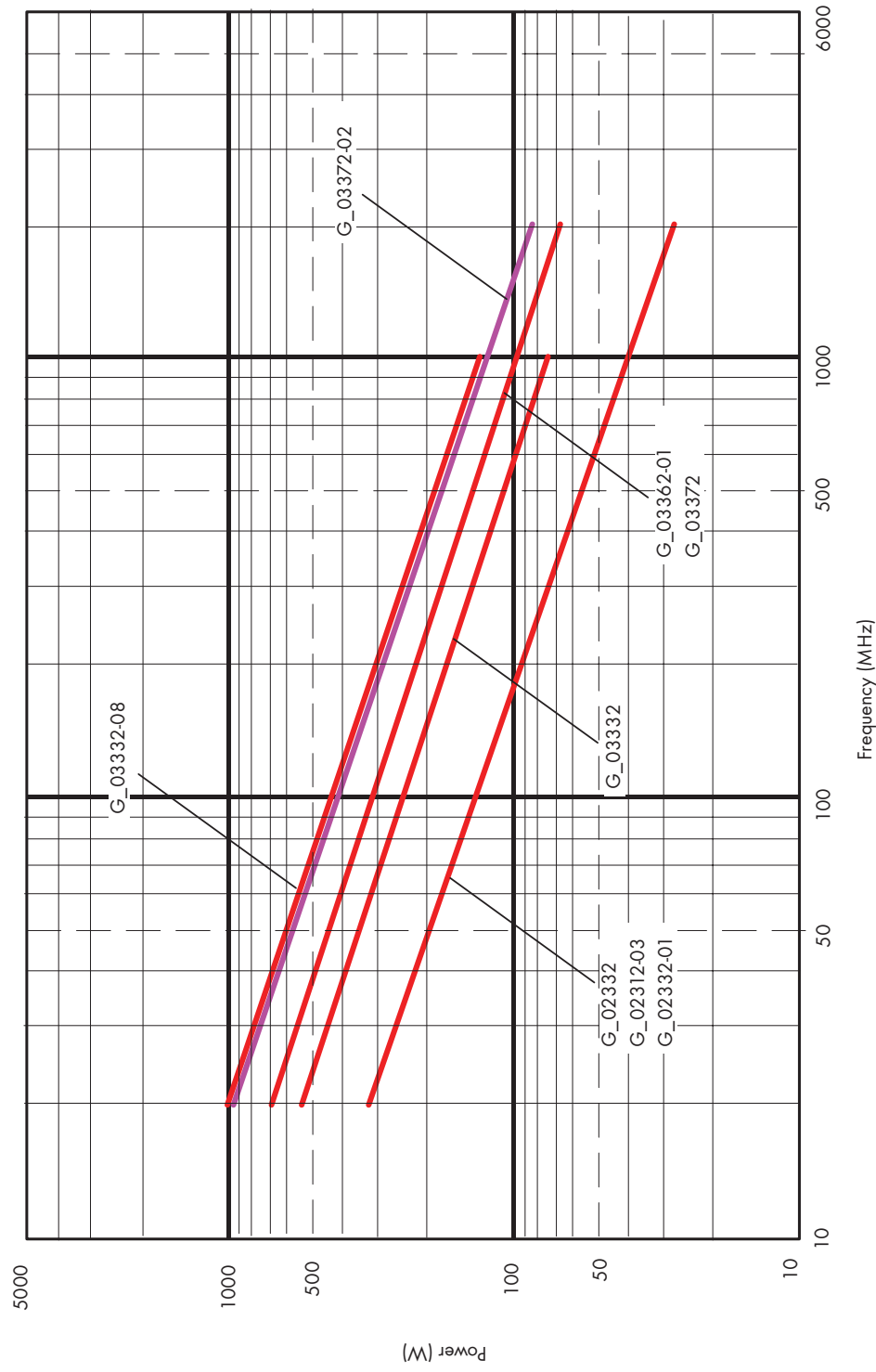
typical values at +20 °C ambient temperature



Power

Triax cables, 50 Ω

typical values at +40 °C ambient temperature

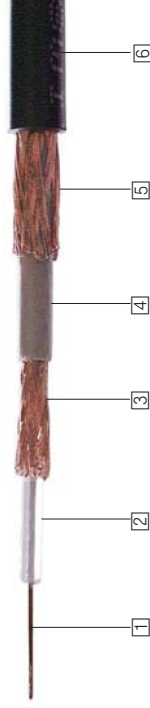


Triax cables

75 Ω

Impedance	75 Ω
Capacitance	67 pF/m
Max. operation frequency	1 GHz (G_04333-60 up to 2 GHz)
Insulation resistance	>10 ⁸ MΩm
Max. frequency	-2 GHz
Min. bending radius static	5 x Ø diameter [6]
Min. bending radius dynamic	15 x Ø diameter [6]
Temperature range G cables	-25 °C to +85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Curves see page	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Jacket 1 [4]		Screen 2 [5]		Jacket 2 [6]		Weight kg/ 100 m	Operating voltage kV	Cable group*	
			Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Colour		crimp	clamp
G_02333	22510118	107 and 108	Wire	SiCu	0.24	PE	1.50	96	PVC	2.80	Cu	3.30	PVC	4.30	black	3.10	-	-
G_02333-60 ^{a)}	22511842		Wire	SiCu	0.24	PE	1.50	96	PVC(Ul)	2.80	Cu	3.30	PVC(Ul)	4.30	black	3.10	-	-
G_03313 ^{b)}	23041420		Wire	Cu	0.47	PE	2.95	95	PE	5.00	Cu	5.70	PUR ¹⁾	7.35	orange	7.70	-	-
G_03333	22510379		Strand-7	Cu	0.49	PE	2.95	95	PVC	5.00	Cu	5.70	PVC	7.35	black	8.40	-	W3
G_03333-60 ^{a)}	22511911		Strand-7	Cu	0.49	PE	2.95	95	PVC(Ul)	5.00	Cu	5.70	PVC(Ul)	7.35	black	8.40	-	W3
G_04373-02 ^{b)}	22511438		Wire	SiCu	0.58	PE	3.70	94	PE ¹⁾	6.10	Cu	6.80	PE ¹⁾	8.40	black	10.20	-	-
G_04333	22510381		Wire	SiCu	0.58	PE	3.65	96	PVC2(LM)	6.10	Cu	7.60	PVC	9.40	black	15.20	-	-
G_04333-60 ^{a)}	22512162		Strand-7	Cu	0.64	PE	3.75	94	PVC(Ul)	5.30	CuSn	6.05	PVC(Ul)	7.50	grey	9.60	-	-

* for suitable connectors

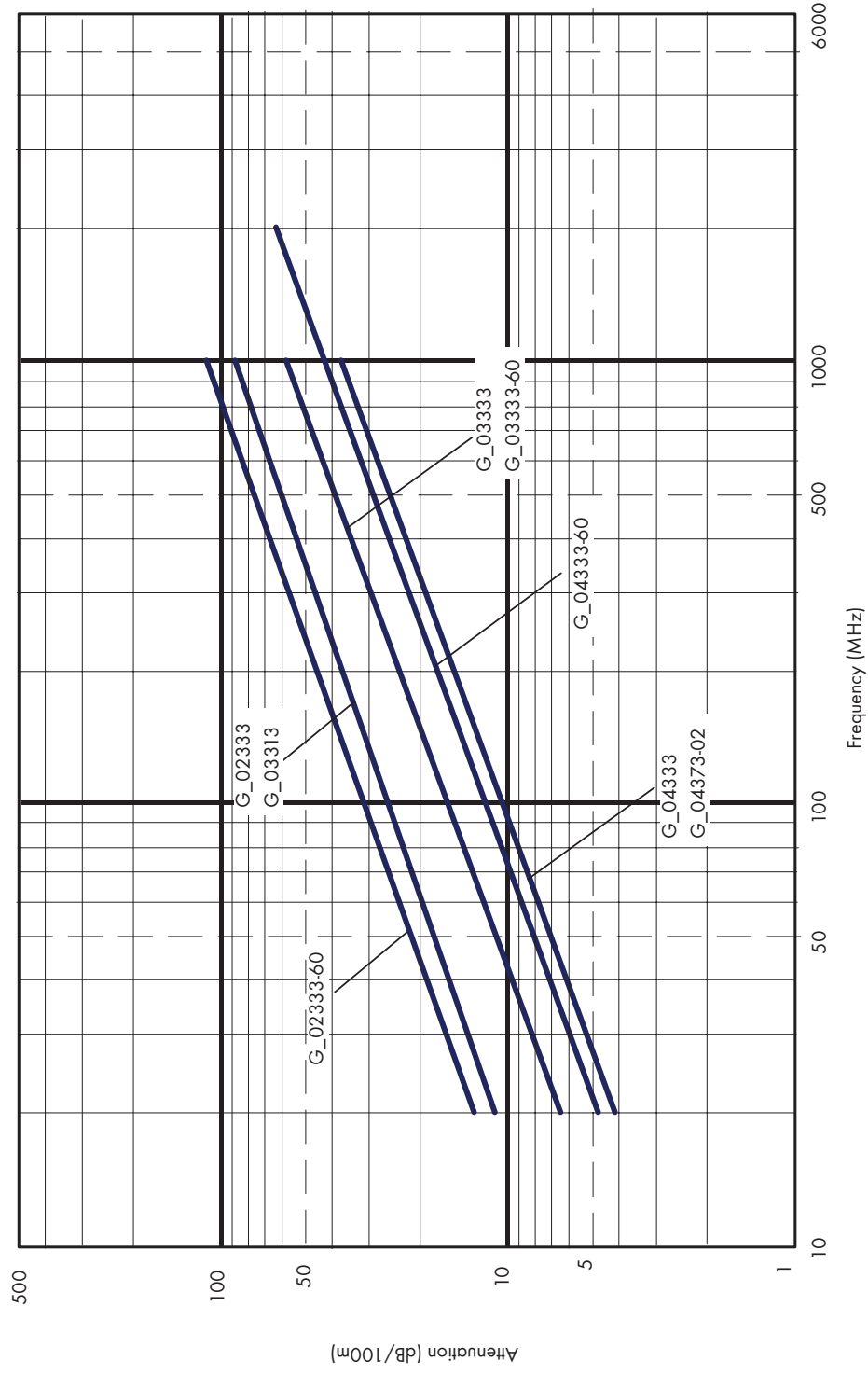
a) UL recognised (see UL types page 117)

b) temperature range: -40 °C to + 85 °C

Attenuation

Triax cables, 75 Ω

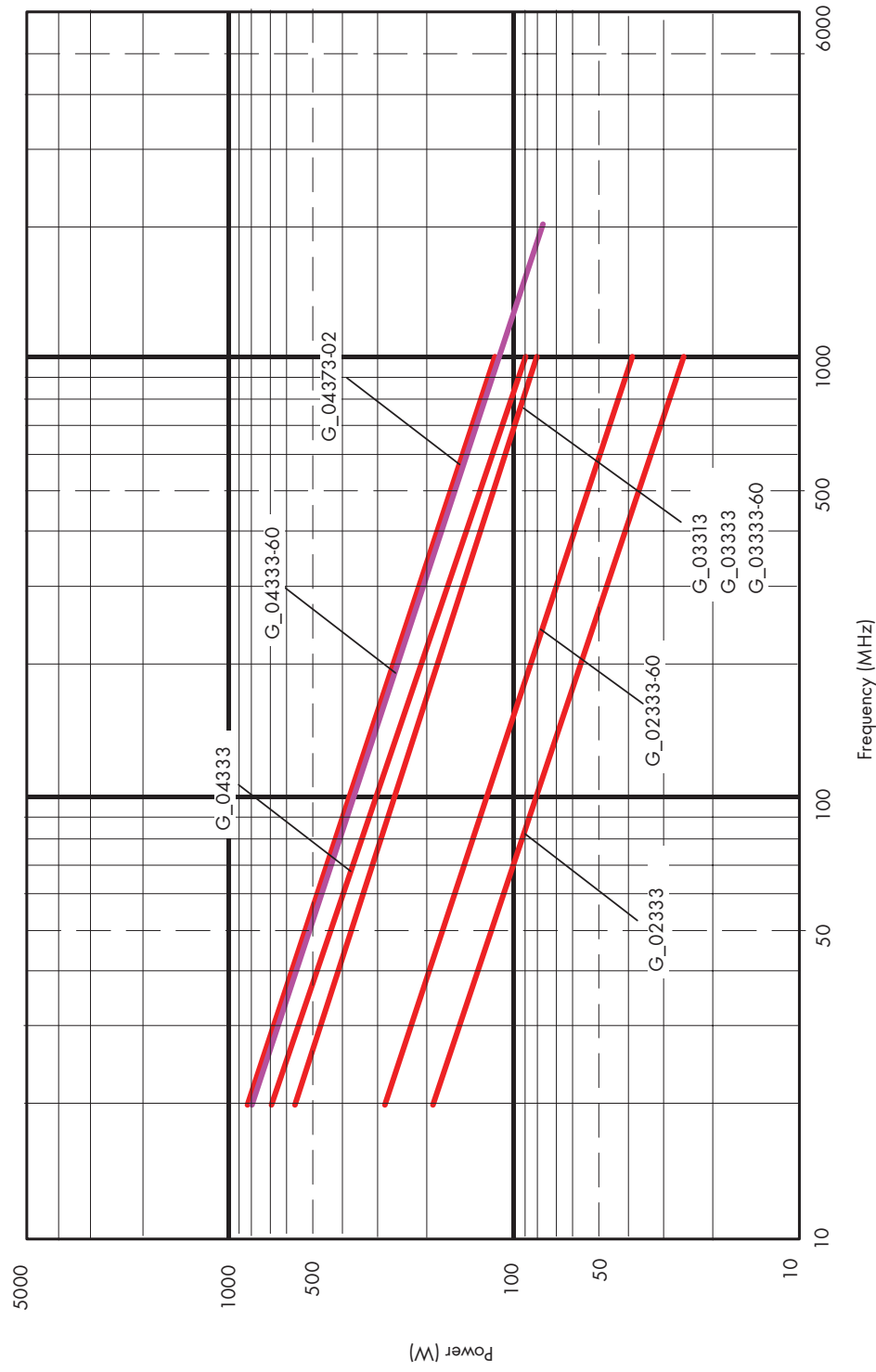
typical values at +20 °C ambient temperature



Power

Triax cables, 75 Ω

typical values at +40 °C ambient temperature





Order your copy of the detailed
catalogue, item no. 23012500



Special Impedances

93 to 150 Ω

Max. operating frequency	1 GHz
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø
Min. bending radius dynamic	15 x Ø
Screening effectiveness	≥ 40 dB at 1 GHz



H+S type	Item no.	Center conductor [1]		Dielectric [2]		Screen 1 [3]		Jacket [5]		Weight kg/100 m	Temperature range	Max. operation frequency	Impedance Ω		Cable group*	
		Design	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm							
S_03279_150	22511485	Wire	Cu	0.15	SPE	2.95	95	PE1)	5.00	3.20	-40 °C to +85 °C	1	150	-	-	-
RG_180_B/U	22510548	Strand-7	SiCuAg	0.30	PTFE	2.60	93	FEP	3.60	2.70	-65 °C to +165 °C	1	95	-	-	-
RG_195_A/U	22510048	Strand-7	SiCuAg	0.30	PTFE	2.52	93	PFA	3.70	2.80	-65 °C to +165 °C	1	95	-	-	-
K_04259_100	22510494	Strand-7	SiCuAg	0.39	PTFE	3.70	97	FEP	4.90	5.40	-65 °C to +165 °C	1	100	-	-	-
RG_62_B/U	22510420	Wire	SiCu	0.60	PE1)	3.70	93	PVC2(LM)	6.10	4.60	-25 °C to +85 °C	1	93	U16	U15	U15
RG_62_A/U	22510028	Wire	SiCu	0.62	PE1)	3.70	93	PVC2(LM)	6.10	4.60	-25 °C to +85 °C	1	93	U15	U16	U16
RG_62_A/U-04	22510626	Wire	SiCu	0.62	PE1)	3.70	93	PVC	6.10	5.08	-25 °C to +85 °C	1	93	U15	U16	U16
RG_63_B/U	22510029	Wire	SiCu	0.62	PE1)	7.25	96	PVC2(LM)	10.30	12.30	-25 °C to +85 °C	1	125	-	-	-
RG_63_B/U-01	22511882	Wire	SiCu	0.62	PE1)	7.25	96	RADOX1)	10.30	13.13	-40 °C to +85 °C	1	125	-	-	-
RG_71_B/U ^{a)}	22510456	Wire	SiCu	0.62	PE1)	3.70	93	PE1)	6.20	6.20	-40 °C to +85 °C	1	93	U18	-	-

a) double screened
1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Twinax cables

78, 95, 105 Ω

Insulation resistance	>10 ⁹ MΩm
Min. bending radius static	5 x Ø diameter [5]
Min. bending radius dynamic	15 x Ø diameter [5]
Temperature range G cables	-25 °C to 85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Center conductor [1]			Dielectric [2]		Cabling	Screen [3]			Jacket [5]			Weight kg/100 m	Operating voltage kV	Imp. (Ω)	Cap. pF/m	Cable group *	
		Lead	Mat.	Constr.	Dim. mm	Mat.	Dim. mm	Mat.	Dim. mm	Cover %	Mat.	Dim. mm	Colour						
S_03739_120-01		A	Cu		0.50	SPE	1.50	Lead A+B twisted		94	PVC2(LM)	5.00	black	3.30	0.40	120	36	-	-
		B	Cu		0.50	SPE	1.50												
G_05730		A	CuSn	7 x 0.28	0.84	PE	1.70	Lead A+B twisted, enclosed in PE tube Ø 4.8 mm		92	PVC2(LM)	7.40	black	7.30	1.00	95	53	-	V2
		B	Cu CuSn	6 x 0.28 1 x 0.28	0.84	PE	1.70												
G_06739_105		A	Cu	7 x 0.31	0.93	PE	1.90	Lead A+B twisted, enclosed in PE tube Ø 6.0 mm		96	PVC	8.30	grey	9.60	0.75	105	50	-	-
		B	CuSn	7 x 0.31	0.93	PE	1.90												
RG_108_A/U		A	CuSn	7 x 0.31	0.93	PE	2.00	Lead A+B twisted		87	PVC2(LM)	6.00	black	4.90	1.00	78	70	-	-
		B	Cu CuSn	1 x 0.31 6 x 0.31	0.93	PE	2.00												
RG_22_B/U		A	Cu	7 x 0.40	1.20	PE	2.25	Lead A+B twisted, enclosed in PE tube Ø 7.25 mm		94 95	PVC2(LM)	10.80	black	17.60	1.00	95	53	-	-
		B	Cu CuSn	6 x 0.40 1 x 0.40	1.20	PE	2.25												

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Multi coax cables

50/75 Ω

Impedance	75 and 50 Ω
Insulation resistance	>10 ⁸ MΩm
Min. bending radius static	5 x Ø outer diameter [5]
Min. bending radius dynamic	15 x Ø outer diameter [5]
Temperature range S cables	-25 °C to +85 °C
Temperature range K cables	-40 °C to +85 °C

HUBER+SUHNER delivers all PVC jacketed coaxial cables leadfree acc. to WEEE directive.



H+S type	Item no.	Imp. Ω	Individual cable			Cabling			Overall screen			Overall jacket			Weight kg/ 100 m
			Type Typ	Number Anzahl	mm	Construction Aufbau	Band	mm	Mat.	Ø mm	Cover %	Mat.	Ø mm	Colour	
3 / S_02223_01	22511364	75	S_02223	1	2.55	3 cables twisted	PETP	5.40	-	-	-	PVC	6.80	grey	6.00
			S_02223-01	1	2.55										
			S_02223-02	1	2.55										
4 / S_02223	22511397	75	S_02223	1	2.55	4 cables twisted	PETP	6.10	-	-	-	PVC	7.50	grey	7.20
			S_02223-01	1	2.55										
			S_02223-02	1	2.55										
5 / S_02223	22511789	75	S_02223-03	1	2.55	5 cables twisted	PETP	6.90	-	-	-	PVC	8.80	grey	9.50
			S_02223	1	2.55										
			S_02223-01	1	2.55										
6 / RG_174_A/U-60/2/3-60 ^{a)}	22511808	50	S_02223-02	1	2.55	6 cables twisted	PTFE	8.65	-	-	-	PVC	10.80	black	13.10
			S_02223-03	1	2.55										
			S_02223-04	1	2.55										

a) UL recognised (see UL types page 117)

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

UL recognised RF coax cable types

Standard RG coax cables, 50 Ω

H+S type	Item no.	UL style	Center conductor ¹		Dielectric ²		Screen 1 ³		Screen 2 ⁴		Jacket ⁵		Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Cover %	Mat.	Ø mm	Colour	Weight kg/100 m	crimp	clamp
RG_214_U-60	22511566	1478	Strand-7	CuAg	2.25	PE	7.28	93	8.70	95	PVC	10.80	black	18.90	U32	U33
RG_223_U-60	22511565	1354	Wire	CuSn	0.88	PE	2.95	96	4.20	94	PVC	5.40	grey	5.50	U9	U10
RG_174_A/U-60	22511810	1354	Strand-7	SiCu	0.48	PE	1.48	87	-	-	PVC(Ul)	2.80	black	1.30	U2	U2
RG_188_A/U-60	22511839	1354	Strand-7	SiCuAg	0.54	PTFE	1.55	94	-	-	FEP	2.60	black	1.30	U2	U2
RG_58_C/U-62	23024284	1354	Strand-19	CuAg	0.90	PE	2.95	96	-	-	PVC(Ul)	4.95	black	3.70	U7	U7
G_02232_D-60	22511746	1354	Strand-7	Cu	0.49	PE	1.50	97	2.05	100	PVC(Ul)	3.10	grey	2.10	U4	U4

* for suitable connectors

Standard RG coax cables, 75 Ω

H+S type	Item no.	UL style	Center conductor ¹		Dielectric ²		Screen 1 ³		Screen 2 ⁴		Jacket ⁵		Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Cover %	Mat.	Ø mm	Colour	Weight kg/100 m	crimp	clamp
G_03233-60	22511927	1354	Strand-7	Cu	0.49	PE	2.95	95	-	-	PVC(Ul)	5.00	black	3.90	U12	U12

* for suitable connectors

NOTE: More technical information regarding these types is listed in the cable chapters. The corresponding number of the page ist to be found in the type index at the end of this catalogue.

Low Loss RF coax cables, 50 Ω

H+S type	Item no.	UL style	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/100 m	Operating voltage kV	Max. operation frequency	Cable group *	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Cover %	Mat.	Ø mm	Colour			crimp	clamp
S_02132_D-60	84010316	1354	Wire	CuAg	0.88	SPE	2.42	CuAg	2.95	92	PVC(UL)	4.80	black	4.50	0.35	6	-
S_03262_B-60	84010497	1354	Wire	Cu	1.06	SPE	2.96	AlPES	3.05	100	LSFH ¹⁾	4.50	black	3.26	0.40	5	-
S_04162_B-60	84023780	1354	Wire	Cu	1.40	SPE	3.80	AlPES	4.00	100	LSFH ¹⁾	5.50	black	4.78	1.00	6	-
S_03262_B-60	84018244	1354	Wire	Cu	1.065	SPE	2.96	AlPES	3.05	100	PVC(UL)	4.50	black	3.17	0.40	5	-

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

Low Loss RF coax cables, 75 Ω

H+S type	Item no.	UL style	Center conductor ¹⁾		Dielectric ²⁾		Screen 1 ³⁾		Screen 2 ⁴⁾		Jacket ⁵⁾		Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group *	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Cover %	Mat.	Ø mm	Colour			crimp	clamp
S_07233_B-60	22511786	1354	Wire	Cu	1.57	SPE	7.25	AlPES	7.30	100	CuSn	8.10	black	12.40	1.00	2	-
SX_03272_B-60	84010513	1354	Wire	Cu	1.065	SPEX	2.96	AlPES	3.05	100	CuSn	3.80	RADOX ¹⁾	3.25	0.4	5	-
SX_04172_B-60	84026748	1354	Wire	CuAg	1.40	SPEX	3.80	AlPES	4.00		CuSn	4.53	RADOX ¹⁾	4.78	0.7	6	-
SX_03232_B-60	84018307	1354	Wire	Cu	1.065	SPEX	2.96	AlPES	3.05	100	PVC(UL)	3.80	black	3.19	0.4	5	-

* for suitable connectors

1) Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

NOTE: More technical information regarding these types is listed in the cable chapters. The corresponding number of the page ist to be found in the type index at the end of this catalogue.

ENVIROFLEX - halogen free coax cables, 50 Ω

H+S type	Item no.	UL style	Center conductor ¹		Dielectric ²		Screen 1 ³		Screen 2 ⁴		Jacket ⁵		Operating voltage kV	Max. oper. freq.	Screen. effect.	Cable group*	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Mat.	Ø mm	Cover %	Mat.	Ø mm	Colour	Weight kg/100 m	crimp	clamp
EF_178	23010656	3651	Strand-7	SiCuAg	0.305	SPEX	0.82	95	–	–	–	RADOX¹⁾	1.84	blue	0.65	U1	U1
EF_178_D	23030426	3651	Strand-7	SiCuAg	0.305	SPEX	0.82	96	CuAg	1.85	92	RADOX¹⁾	2.45	blue	1.12	–	–
EF_316	23009565	3651	Strand-7	SiCuAg	0.54	SPEX	1.54	99	–	–	–	RADOX¹⁾	2.54	blue	1.60	U2	U2
EF_316_D	22512281	3651	Strand-7	SiCuAg	0.54	SPEX	1.54	96	CuAg	2.50	90	RADOX¹⁾	3.16	black/blue**	2.10	U4	U4
EF_142	22512168	3651	Wire	CuAg	0.95	SPEX	2.98	97	CuAg	4.18	95	RADOX¹⁾	5.00	black/blue**	6.00	U9	U10
EF_400	22512280	3651	Strand-19	CuAg	1.00	SPEX	3.03	96	CuAg	4.24	91	RADOX¹⁾	5.00	black/blue**	6.00	U11	U10
EF_400-01	84008746	3651	Strand-19	CuAg	1.00	SPEX	3.03	96	CuAg	4.24	91	RADOX¹⁾	5.00	black	6.00	U11	U10
EF_393	22512282	3651	Strand-7	CuAg	2.46	SPEX	7.35	92	CuAg	8.75	99	RADOX¹⁾	10.10	black/blue**	18.00	U33	U33
EF_316_D-01	84011098	3651	Strand-7	SiCuAg	0.54	SPEX	1.54	96	CuAg	2.50	90	RADOX¹⁾	3.16	black	2.10	U4	U4
EF_316_03	84027942	3651	Strand-7	SiCuAg	0.54	SPEX	1.54	99	–	–	–	RADOX¹⁾	2.52	black	1.60	U2	U2
EF_178-01	84032838	3651	Strand-7	SiCuAg	0.305	SPEX	0.82	95	–	–	–	RADOX¹⁾	1.84	black	0.65	U1	U1
EF_179	23019104	3651	Strand-7	SiCuAg	0.305	SPEX	1.55	94	–	–	–	RADOX¹⁾	2.54	blue	1.11	U5	U5
EF_179-01	84021688	3651	Strand-7	SiCuAg	0.305	SPEX	1.55	94	–	–	–	RADOX¹⁾	2.54	black	1.11	U5	U5

* for suitable connectors

EF = ENVIROFLEX

** black with blue line

¹⁾ Low Smoke Free of Halogen (LSFH) acc. waste electrical and electronic equipment (WEEE) and restriction of the use of certain hazardous substances (RoHS) directive.

NOTE: More technical information regarding these types is listed in the cable chapters. The corresponding number of the page ist to be found in the type index at the end of this catalogue.

High temperature, flame retardant RF coax cables, 50 Ω

H+S type	Item no.	UL style	Center conductor ①		Dielectric ②		Screen 1 ③			Screen 2 ④			Jacket ⑤			Weight kg/100 m	Operating voltage kV	Max. oper. freq.	Cable group *		
			Design	Mat.		Mat.	Ø mm	Mat.	Ø mm	Cover %	Mat.	Ø mm	Cover %	Mat.	Ø mm	Colour			crimp	clamp	
K_02252_D-60	22511904	1354	Strand-7	CuAg	0.54	FEP	1.54	CuAg	2.00	96	CuAg	2.50	91	FEP	3.00	brown	2.40	1.45	6	U4	U4
K_02252_D-62 ^{b)}	22511857	1354	Strand-7	SiCuAg	0.54	PTFE	1.55	CuAg	2.00	97	CuAg	2.55	97	FEP	2.95	grey	2.50	0.85	6	U4	U4
RG_188_A/U	22511839	1354	Strand-7	SiCuAg	0.54	PTFE	1.55	CuAg	2.00	97	-	-	-	FEP	2.60	black	1.30	1.5	1	U2	U2

* for suitable connectors

Triax cables, 78, 95, 105 Ω

H+S type	Item no.	UL style	Center conductor ①			Dielectric ②		Screen 1 ③			Jacket 1 ④		Screen 2 ⑤			Jacket 2 ⑥					Cable group *	
			Design	Mat.	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Mat.	Ø mm	Cover %	Ø mm	Mat.	Ø mm	Colour	Weight kg/100 m	Operating voltage kV			crimp	clamp
G_02333-60	22511842	1354	Wire	SiCu	0.24	PE	1.50	96	Cu	2.00	PVC(Ul)	2.80	92	Cu	3.30	PVC(Ul)	4.30	3.10	1.0		–	–
G_03333-60	22511911	1354	Strand-7	Cu	0.49	PE	2.95	95	Cu	3.60	PVC(Ul)	5.00	90	Cu	5.70	PVC(Ul)	7.35	8.40	1.0		–	W3
G_04333-60	22512162	1354	Strand-7	Cu	0.64	PE	3.75	94	CuSn	4.45	PVC(Ul)	5.30	95	CuSn	6.05	PVC(Ul)	7.50	9.60	3.0		–	–

* for suitable connectors

Multi coax cables, 50 Ω

H+S type	Item no.	UL style	Individual cable			Cabling			Overall screen			Overall jacket			Weight kg/100 m
			Imp. Ω	Type	Number Anzahl	Construction Aufbau	Band	mm	Mat.	Ø mm	Cover %	Mat.	Ø mm	Colour	Weight kg/100 m
6/RG_174_A/U-60:2-3-60	22511808	1354	50	RG_174_A/U-60	6	2.80	6 cables twisted	PTFE	8.65	–	–	PVC	10.80	black	43.70

* for suitable connectors

NOTE: More technical information regarding these types is listed in the cable chapters. The corresponding number of the page ist to be found in the type index at the end of this catalogue.

Quick selection



your benefit	
attenuation flexibility / flex life	solid stranded
halogenfree attenuation temperature up to +165 °C	PE SPE PTFE
up to 1 GHz up to 6 GHz above 6 GHz	single double tape
flexibility chemical and abrasion resistance abrasion resistance, flexible halogenfree, flame retardant up to +85 °C halogenfree, flame retardant up to +105 °C excellent chemical resistance and abrasion resistant operation up to +165 °C(200 °C resp. 260 °C)	PVC PE PUR LSFH RADOX FEP/PFA

Material selection guide

Requested properties	Possible materials			
	Center conductor	Dielectric	Screen	Jacket
Flexibility	Strand	SPE	large braid angle	PVC / PUR
Temperature resistance over 150 °C	*	PTFE / PFA / FEP	*	PFA / FEP / FEP
Temperature resistance below -150 °C	*	PTFE / PI	*	FEP / PTFE / PI
Water barrier across to the cable axis	*	*	Al-Foil or CuSn / CuAg with PETP-Foil	PE / FEP
Flame retardant, halogenated	*	PTFE / PFA / FEP	*	RADOX 155 / FEP / PFA / ETFE
Flame retardant, halogenfree	*	PE and SPE crosslinked	*	LSFH / RADOX 125
Halogenfree, (flamable)	*	PE / SPE	*	PE / PA / PUR
Radiation resistance	*	PE / ETFE / PI / PEEK	*	ETFE / RADOX / PI
Continuous weather resistance	*	*	*	PUR, FEP
Weather resistance	*	*	*	PE bk / RADOX bk / PVC bk
Abrasion resistance	*	*	*	PUR / FEP
Oil resistance	*	*	*	PVC spec. / FEP / Elastomer / PA / PUR
Acid resistance (non-oxidating)	*	*	*	FEP / PE / PP
Solvent resistance	*	*	*	FEP
Fuel resistance	*	*	*	FEP
Alkali resistance	*	*	*	FEP / PE / PP
Oxidant resistance	*	*	*	FEP, PFA
Rodent proof	*	*	*	Steel band, steel wire braid
Low attenuation	Wire (Cu-Ag)	SPE	CuAg double braid CuAg wrapped, Al-Foil length	*
Migration resistance according to MIL-C-17G	*	*	*	all, except PVC 1
Temperature range -40 °C bis 85 °C	*	PE / PTFE / ETFE / PEEK	*	PE / PA / PUR / ETFE / FEP / PFA
Low noise application	*	*	Semicond. and Cu / CuAg	

a) PI (Kapton[®], DuPont)

* does not influence that particular property

Comparison of insulation and jacket materials

Application for	PE Jacket or dielectric	SPE Dielectric	PVC Jacket	PUR Jacket	PA Jacket	RADOX Jacket	LSFH Jacket	PTFE Dielectric	PFA Jacket or dielectric	FEP Jacket or dielectric
Electrical properties										
Dielectric constant at 10 ⁶ Hz	2.28	1.3...2.0	-	-	-	-	-	2.05	2.1	2.1
Dissipation factor at 10 ⁶ Hz	1.5 x 10 ⁻⁴	3 x 10 ⁻⁴	-	-	-	-	-	10 ⁻⁴	3 x 10 ⁻⁴	3 x 10 ⁻⁴
Volume resistivity MΩm	10 ⁸	-	10 ⁵	10 ⁴	10 ⁵	10 ³ - 10 ⁸ 3]	10 ⁶	10 ¹⁰	10 ¹⁰	10 ¹¹
Dielectric strength kV/mm	40	20	20 - 25	14 - 25	38	30	26	50	70	82
Physical properties										
Density kg/m ³	930	x ... x	1200-1500	1100-1600	1010	1200-1500	1500	2140-2180	2150	2140-2170
Nominal service temperature °C	85, cross- linked: 105	85, cross- linked: 105	85 to 105	85	85	125 (GKW-S) 105	85	260	260	200
Low temperature limit °C	-40	-40	-25 to -40	-40	-40	-40 to -50	-40	-200	-100	-100
Solder resistance	medium; cross- linked: good	medium; crosslinked good	low	low	medium	high	low	high	high	high
Flammability	high flammable	high flammable	flammable (plasticizer)	flammable	flammable	flame retardant halogen free	flame retardant, halogen free	not flammable	not flammable	not flammable
Smoke generation	low	low	high, cor- rosive gases	high	high	low to medium	medium	low	low	low
Combustibility	keeps burning	keeps burning	extinguishes out- side the flame	keeps burning, drops off	keeps burning	self- extinguishing	self- extinguishing	not flammable	not flammable	not flammable
								not recommended because of its halogen content		

Application for	PE Jacket or dielectric	SPE Dielectric	PVC Jacket	PUR Jacket	PA Jacket	RADOX Jacket	LSFH Jacket	PTFE Dielectric	PFA Jacket or dielectric	FEP Jacket or dielectric
Environmental properties										
Weather resistance	black: high; coloured: medium	-	high	black: high; coloured: medium	high	black: high; coloured: medium	black: high; coloured: medium	excellent	excellent	excellent
Water resistance	high	high	sufficient	high	low	high	high	high	high	high
Radiation resistance Mrad	100	100	1	1	0.1	100	10	3	1	100
Chemical resistance at about 20 °C - non-oxidizing acids - Alkali - Oil - Solvents, e.g. Ethanol, Benzene, Trichloromethane, etc.	high high high 1)	low high low bad	low-high low-high low-high 2)	medium medium medium medium	low low low-high low with aromatic sol- vents; high with aliphatic sol- vents	low low - medium ³⁾ low - medium ³⁾ low - medium ³⁾	low low low low	excellent excellent excellent excellent	excellent excellent excellent excellent	medium medium high high
Mechanical properties										
Tensile strength N/mm ²	10 - 30	9.5	13 - 34	50	60	10 - 14	7	27.5	20.6	28
Elongation %	150 - 600	270	130 - 350	650	300	150 - 250	150	300	300	500
Abrasion resistance	high	low; cross- linked: high	medium	excellent	high	medium	medium	high	high	high

1) Depends on the applied solvents

2) The chemical resistance depends on the type of PVC and the plasticizer applied

3) Properties may differ with the compound applied

4) PETE = Polyethylene Terephthalate, Hyrel[®], DUPONT

Suitable connector groups

Connector type		Cable entry
R6 (G 02133 D-05 (Cable Group R6))		
Straight cable plugs	11_BNC-75-2-21/133_NH	crimp
Right angle cable plugs	16_BNC-75-2-5/133_NE	crimp
Straight bulkhead cable jacks	24_BNC-75-2-15/133_NH	crimp
R8 (K 02253 D-02)		
Straight cable plugs	11_MCX-75-2-6/113_NE	crimp
S5 (S 02223-02)		
Straight cable plugs	11_BNC-75-2-18/133_NE	crimp
Straight cable jacks	21_BNC-75-2-7/133_NE	crimp
Straight bulkhead cable jacks	24_BNC-75-2-12/133_UE	crimp
S7, S8, S9 (on request)		
S16 (S 04262 D)		
Straight cable plugs	11_N-50-4-63/133_NE	crimp
Right angle cable plugs	16_N-50-4-14/133_NE	crimp
	16_TNC-50-4-115/133_NE	crimp
	16_QMA-50-4-1/133_NH	crimp
	16_QN-50-4-1/133_NE	crimp
Straight bulkhead cable jacks	24_N-50-4-17/133_UE	crimp
S24 (S 06162 D-02)		
Straight cable plugs	11_N-50-6-10/133_NH	crimp
	11_716-50-6-3/003_E	crimp
Straight panel cable jacks	25_716-50-6-2/003_V	crimp

Connector type		Cable entry
S26 (S 06132 D-10)		
Straight cable plugs	11_N-50-6-5/133_NE	crimp
Right angle cable plugs	16_N-50-6-8/133_NE	crimp
S32 (S 07262 BD, SX 07272 BD)		
Straight cable plugs	11_716-50-7-14/003_E	crimp
	11_N-50-7-49/133_NE	crimp
Right angle cable plugs	16_716-50-7-11/003_E	crimp
	16_N-50-7-22/133_NE	crimp
Straight cable jacks	21_716-50-7-11/003_E	crimp
	21_N-50-7-20/133_N	crimp
S39 (S 10162 B-11, S 10172 B-11)		
Straight Cable Plugs	11_716-50-10-3/003_Z	crimp
	11_N-50-10-5/103_UV	crimp
Right Angle Cable Plugs	16_N-50-10-1/103_UV	crimp
Straight cable jacks	21_716-50-10-1/003_Z	crimp
	21_N-50-10-1/133_UF	crimp
U0 (K 01152-7)		
Straight cable plugs	11_MMCX-50-1-2/111_OE	crimp
	16_MMCX-50-1-2/111_OH	crimp
	21_MMCX-50-1-2/111_OE	crimp

Connector type		Cable entry
U1 (RG 178 B/U, RG 196 A/U, G 01132-06, K 01232-05)		
Straight cable plugs	11_BNC-50-1-1/133_NE	crimp
	11_BNC-50-1-5/133_NE	crimp
	11_MCX-50-1-13/111_NH	crimp
	11_MCX-50-1-13/133_NH	crimp
	11_MMBX-50-1-1/111_NE	crimp
	11_MMCX-50-1-1/111_OH	crimp
	11_GLA-01-1-8/122_NE	crimp
	11_SMA-50-1-4/111_NE	crimp
	11_SMB-50-1-40/111_NH	crimp
	11_SMC-50-1-6/111_NE	crimp
	11_SMC-50-1-10/111_NH	crimp
	11_SMS-50-1-10/111_NE	crimp
	16_MCX-50-1-7/111_NH	crimp
Right angle cable plugs	16_MCX-50-1-7/133_NH	crimp
	16_MMBX-50-1-1/111_NE	crimp
	16_MMCX-50-1-1/111_OH	crimp
	16_GLA01-1-1/122_NE	crimp
	16_SMA-50-1-1/111_NH	crimp
	16_SMB-50-1-40/111_NE	crimp
	16_SMB-50-1-50/111_NE	crimp
	16_SMC-50-1-10/111_NH	crimp
	16_SMC-50-1-20/111_NE	crimp
	16_SMS-50-1-10/111_NH	crimp
Straight cable jacks	21_BNC-50-1-4/133_NE	crimp
	21_MCX-50-1-11/111_NH	crimp
	21_MMCX-50-1-1/111_OE	crimp
	21_SMB-50-1-10/111_NE	crimp

Connector type		Cable entry
U1 (cont.)	24_BNC-50-1-1/133_NE 24_BNC-50-1-6/133_NE 24_MCX-50-1-13/111_NH 24_MCX-50-1-13/133_NH 24_MMCX-50-1-1/111_OH 24_GLA01-1-11/112_NE 24_GLA01-1-12/112_NH 24_SMB-50-1-10/111_NE 24_SMC-50-1-10/111_NH	clamp crimp crimp crimp crimp clamp clamp crimp crimp
Straight bulkhead cable jacks		
U2 (RG 174 /U, RG 188 A/U, RG 316 /U)	11_1023-C50-2-3/111_NH 11_BNC-50-2-1/133_NE 11_BNC-50-2-13/133_NH 11_MCX-50-2-16/111_NH 11_MCX-50-2-16/133_NH 11_MMBX-50-2-1/111_NE 11_MMCX-50-2-3/111_OH 11_N-50-2-1/133_NE 11_N-50-2-11/133_NH 11_GLA01-2-8/122_NH 11_GLA01-2-11/122_NE 11_GMA-50-2-2/133_NH 11_SMA-50-2-27/111_NH 11_SMA-50-2-42/133_NH 11_SMA-50-2-55/199_NE 11_SMB-50-2-40/111_NH 11_SMC-50-2-5/111_NE 11_SMC-50-2-10/111_NH 11_SMC-50-2-10/133_NE 11_SMS-50-2-110/111_NH 11_TNC-50-2-1/133_NE 11_TNC-50-2-112/133_NE	crimp clamp crimp crimp crimp crimp crimp clamp crimp crimp clamp crimp crimp crimp crimp clamp crimp crimp clamp crimp
Straight cable plugs		
Straight bulkhead cable plugs	14_BMA-50-2-3/199_NE	crimp

Connector type		Cable entry
Right angle cable plugs	16_BNC-50-2-9/133_NE	clamp
	16_BNC-50-2-3/133_NE	crimp
	16_MCX-50-2-14/111_NH	crimp
	16_MCX-50-2-14/133_NH	crimp
	16_MCX-50-2-102/111_NH	soldered
	16_MMBX-50-2-1/111_NE	crimp
	16_MMCX-50-2-4/111_OH	crimp
	16_GLA01-2-1/122_NE	crimp
	16_GMA-50-2-2/133_NH	crimp
	16_SMA-50-2-105/111_NH	crimp
	16_SMA-50-2-145/133_NH	crimp
	16_SMB-50-2-40/111_NH	crimp
	16_SMB-50-2-50/111_NH	crimp
	16_SMC-50-2-5/111_NE	clamp
	16_SMC-50-2-10/111_NH	crimp
	16_SMC-50-2-20/111_NE	crimp
	16_SMS-50-2-10/111_NE	crimp
16_TNC-50-2-119/133_NE	crimp	
U3 (G 01130 HT)		
Straight cable plugs	11_BNC-50-2-16/133_NH	crimp
	11_GLA01-2-13/122_NH	crimp
Right angle cable plugs	16_GLA01-2-13/122_NH	crimp
U4 (K 02252 D, G 02232 D, EF 316 D)		
Straight cable plugs	11_1023-C50-2-2/111_NH	crimp
	11_BNC-50-2-14/133_NH	crimp
	11_MCX-50-2-15/111_NH	crimp
	11_MCX-50-2-15/133_NH	crimp
	11_MMBX-50-2-2/111_NE	crimp
	11_MMCX-50-2-4/111_OE	crimp
	11_N-50-2-16/133_NE	crimp
	11_N-50-2/133_NE	clamp
	11_GLA01-2-9/122_NH	crimp
	11_GMA-50-2-1/133_NH	crimp
	11_SMA-50-2-6/111_NH	crimp
	11_SMA-50-2-41/133_NH	crimp
	11_SMA-50-2-56/199_NH	crimp
	11_SMB-50-2-41/111_NH	crimp
	11_SMC-50-2-11/111_NE	crimp
	11_TNC-50-2-113/133_NE	crimp

Connector type		Cable entry
Right angle cable plugs	16_BNC-50-2-5/133_NH	crimp
	16_MCX-50-2-11/111_NH	crimp
	16_MCX-50-2-11/133_NH	crimp
	16_MMBX-50-2-2/111_NE	crimp
	16_MMCX-50-2-2/111_OH	crimp
	16_GLA01-2-4/122_NH	crimp
	16_GMA-50-2-1/133_NH	crimp
	16_SMA-50-2-106/111_NH	crimp
	16_SMA-50-2-141/133_NH	crimp
	16_SMB-50-2-41/111_NH	crimp
	16_SMB-50-2-51/111_NH	crimp
	16_SMC-50-2-11/111_NE	crimp
	16_TNC-50-2-7/133_NE	crimp
	Straight cable jacks	21_1023-C50-2-2/111_NE
21_BNC-50-2-10/133_NE		crimp
21_MCX-50-2-12/111_NE		crimp
21_MCX-50-2-12/133_NH		crimp
21_SMA-50-2-6/111_NH		crimp
21_SMB-50-2-11/111_NH		crimp
21_SMC-50-2-11/111_NE		crimp
Straight bulkhead cable jacks	24_BNC-50-2-14/133_NH	crimp
	24_MCX-50-2-6/111_NH	crimp
	24_N-50-2-117/133_NE	crimp
	24_GMA-50-2-2/133_NH	crimp
	24_SMA-50-2-13/111_NH	crimp
	24_SMA-50-2-45/133_NH	crimp
	24_SMB-50-2-111/111_NH	crimp
	24_TNC-50-2-29/133_NH	crimp
Straight panel cable jacks	25_BNC-50-2-16/133_NE	crimp
	25_N-50-2-10/133_NE	crimp
	25_SMA-50-2-6/111_NE	crimp
	25_SMA-50-2-46/133_NE	crimp

Connector type		Cable entry
U5 (RG 179 B/U, RG 187 A/U)		
Straight cable plugs	11_BNC75-2-1/133_NE	clamp
	11_BNC75-2-15/133_NH	crimp
	11_MCX75-2-1/113_NE	crimp
Right angle cable plugs	16_BNC75-2-3/133_NE	crimp
	16_MCX75-2-5/133_NH	crimp
Straight cable jacks	21_BNC75-2-5/133_NE	crimp
Straight bulkhead cable jacks	24_BNC75-2-6/133_NH	crimp
	24_MCX75-2-1/113_NE	crimp
Straight panel cable jacks	25_BNC75-2-7/133_NE	crimp
	25_BNC75-2-8/133_NE	crimp
U6 (G 03133-06)		
Straight cable plugs	11_BNC75-2-12/113_NE	clamp
U7 (RG 58 C/U, RG 303 /U, G 03232, GX 03272)		
Straight cable plugs	11_BNC50-3-1/133_NE	clamp
	11_BNC50-3-4/133_NH	crimp
	11_BNC50-3-5/133_NE	clamp
	11_H4-50-3-1/133_NE	clamp
	11_H4-50-3-3/133_NE	crimp
	11_N50-3-5/133_NE	clamp
	11_N50-3-28/133_NE	crimp
	11_QLA-01-3-1/122_NE	crimp
	11_QMA-50-3-2/133_NH	crimp
	11_QN-50-3-2/133_NE	crimp
	11_SHV-50-3-1/133_NE	crimp
	11_SHV-50-3-10/133_NE	crimp
	11_SMA-50-3-7/111_NE	clamp
	11_SMA-50-3-45/133_NH	crimp
	11_SMA-50-3-55/199_NE	crimp
	11_TNC-50-3-5/133_NE	clamp
	11_TNC-50-3-6/133_NE	clamp
	11_TNC-50-3-116/133_NE	crimp

Connector type		Cable entry
Right angle cable plugs	16_BNC50-3-5/133_NE	crimp
	16_BNC50-3-25/133_NE	clamp
	16_BNC50-3-13/133_NE	crimp
	16_N50-3-26/133_NE	crimp
	16_N50-3-103/133_NE	clamp
	16_QMA-50-3-2/133_NH	crimp
	16_QN-50-3-2/133_NE	crimp
	16_SMA-50-3-105/111_NH	crimp
	16_SMA-50-3-145/133_NE	crimp
	16_TNC-50-3-28/133_NE	clamp
	16_TNC-50-3-13/133_NE	crimp
	16_TNC-50-3-112/133_NE	crimp
Straight cable jacks	21_BNC50-3-2/133_NE	crimp
	21_BNC50-3-12/133_NE	clamp
	21_H4-50-3-1/133_NE	clamp
	21_N50-3-5/133_NE	clamp
	21_N50-3-7/133_NE	crimp
	21_SHV-50-3-1/133_NE	crimp
Straight bulkhead cable jacks	21_SMA-50-3-5/111_NE	crimp
	21_TNC-50-3-4/133_NE	clamp
	21_TNC-50-3-31/133_NE	crimp
	24_BNC50-3-1/133_NE	crimp
	24_BNC50-3-5/133_NE	clamp
	24_H4-50-3-1/133_NE	clamp
Straight panel cable jacks	24_N50-3-10/133_NE	clamp
	24_N50-3-11/133_NE	crimp
	24_QMA-50-3-2/133_NH	crimp
	24_QN-50-3-2/133_NE	crimp
	24_SHV-50-3-1/133_NE	crimp
	24_TNC-50-3-23/133_NE	crimp

Connector type		Cable entry
U8 (S 03232)		
Straight cable plugs	11_BNC-50-3-58/133_NH	crimp
U9 (RG 142 B/U, RG 223 /U, EF 142)		
Straight cable plugs	11_BNC-50-3-16/133_NH	crimp
	11_N50-3-29/133_NE	crimp
	11_QLA-01-3-2/122_NE	crimp
	11_QMA-50-3-1/133_NH	crimp
	11_QN-50-3-1/133_NE	crimp
	11_SMA-50-3-6/111_NH	crimp
	11_SMA-50-3-46/133_NH	crimp
	11_SMA-50-3-56/199_NH	crimp
	11_TNC-50-3-115/133_NE	crimp
Straight bulkhead cable plugs	14_BMA-50-3-3/199_NE	crimp
Right angle cable plugs	16_BNC-50-3-7/133_NE	crimp
	16_N50-3-27/133_NH	crimp
	16_QMA-50-3-1/133_NH	crimp
	16_SMA-50-3-106/111_NH	crimp
	16_SMA-50-3-146/133_NH	crimp
	16_TNC-50-3-18/133_NE	crimp
	16_TNC-50-3-111/133_NE	crimp
Straight cable jacks	21_BNC-50-3-9/133_NE	crimp
	21_N50-3-8/133_NE	crimp
	21_SMA-50-3-6/111_NE	crimp
	21_TNC-50-3-32/133_NE	crimp
Straight bulkhead cable jacks	24_BMA-50-3-5/119_NE	crimp
	24_BNC-50-3-8/133_NE	crimp
	24_N50-3-12/133_NE	crimp
	24_QMA-50-3-1/133_NH	crimp
	24_QN-50-3-1/133_NE	crimp
	24_TNC-50-3-21/133_NE	crimp
Straight panel cable jacks	25_BMA-50-3-42/133_NE	crimp
	25_BMA-50-3-3/119_NE	crimp
	25_N50-3-7/133_NE	crimp

Connector type		Cable entry
U10	(RG 142 B/U, RG 223 /U, RG 400 /U, EF 142, EF 400)	
Straight cable plugs	11_BNC-50-3-1/133_NE	clamp
	11_BNC-50-3-5/133_NE	clamp
	11_N-50-3-5/133_NE	clamp
	11_SMA-50-3-8/111_NH	clamp
	11_SMA-50-3-10/111_NE	clamp
	11_TNC-50-3-5/133_NE	clamp
Right angle cable plugs	11_TNC-50-3-6/133_NE	clamp
	16_BNC-50-3-25/133_NE	clamp
	16_N-50-3-103/133_NE	clamp
Straight cable jacks	16_TNC-50-3-28/133_NE	clamp
	21_BNC-50-3-12/133_NE	clamp
	21_N-50-3-5/133_NE	clamp
Straight bulkhead cable jacks	21_TNC-50-3-4/133_NE	clamp
	24_BNC-50-3-5/133_NE	clamp
Straight panel cable jacks	24_N-50-3-10/133_NE	clamp
	25_N-50-3-4/133_NE	clamp
Straight panel cable jacks	25_TNC-50-3-9/133_NE	clamp
		clamp
U11	(RG 400 /U, EF 400)	
Straight cable plugs	11_BNC-50-3-52/133_NH	crimp
	11_N-50-3-31/133_NH	crimp
	11_QMA-50-3-1/133_NH	crimp
	11_SMA-50-3-6/111_NH	crimp
	11_SMA-50-3-46/133_NH	crimp
	11_SMA-50-3-56/199_NH	crimp
	11_TNC-50-3-117/133_NE	crimp
		crimp
Straight bulkhead cable plugs	14_BMA-50-3-3/199_NE	crimp
		crimp
Right angle cable plugs	16_QMA-50-3-1/133_NH	crimp
	16_QN-50-3-1/133_NE	crimp
	16_SMA-50-3-106/111_NH	crimp
	16_SMA-50-3-146/133_NH	crimp
Straight cable jacks	21_N-50-3-12/133_NE	crimp
	21_SMA-50-3-6/111_NE	crimp
Straight bulkhead cable jacks	24_BMA-50-3-5/119_NE	crimp
	24_BNC-50-3-25/133_NH	crimp
	24_QMA-50-3-1/133_NH	crimp

Connector type		Cable entry
Straight panel cable jacks	25_BMA-50-3-3/119_NE	crimp
	25_N-50-3-20/133_NE	crimp
U12	(G 03233)	
Straight cable plugs	11_BNC-75-3-8/133_NE	crimp
		crimp
Straight bulkhead cable jacks	24_BNC-75-3-4C/133_NE	crimp
		crimp
U13	(G 03130 HT)	
Straight cable plugs	11_BNC-50-3-36/133_NE	crimp
		crimp
U14	(G 03233 D)	
Straight cable plugs	11_BNC-75-3-9/133_NE	crimp
	11_BNC-75-3-11/133_NE	clamp
Right angle cable plugs	16_BNC-75-3-4/133_NE	crimp
		crimp
Straight bulkhead cable jacks	24_BNC-75-3-5/133_NE	crimp
		crimp
U15	(RG 59 B/U, RG 62 A/U, RG 302/U, GX 04273, S 04233)	
Straight cable plugs	11_BNC-75-4-3/133_NE	clamp
	11_H4-50-4-1/133_NE	clamp
	11_N-75-4-3/133_NE	clamp
	11_SHV-50-4-10/133_NE	clamp
Right angle cable plugs	11_TNC-75-4-2/133_NE	clamp
		clamp
Straight bulkhead cable jacks	16_TNC-75-4-2/133_NE	clamp
	24_N-75-4-2/133_NE	clamp
U16	(RG 59 B/U, RG 62 A/U, RG 302 /U, GX 04273)	
Straight cable plugs	11_BNC-50-4-4/133_NE	crimp
	11_BNC-50-4-23/133_NE	crimp
	11_BNC-75-4-4/133_NH	crimp
	11_H4-50-4-4/133_NE	crimp
	11_N-75-4-8/133_NE	crimp
	11_SHV-50-4-1/133_NE	crimp
Right angle cable plugs	11_TNC-75-4-4/133_NE	crimp
		crimp

Connector type		Cable entry
Straight cable jacks	21_BNC-75-4-4/133_NE	crimp
	21_N-75-4-8/133_NE	crimp
	21_SHV-50-4-1/133_NE	crimp
Straight bulkhead cable jacks	24_BNC-75-4-3/133_NE	crimp
	24_SHV-50-4-1/133_NE	crimp
	24_TNC-75-4-8/133_NE	crimp
U17	(S 04233)	
Straight cable plugs	11_BNC-75-4-30/133_NE	crimp
	11_TNC-75-4-30/133_NE	crimp
Straight bulkhead cable jacks	24_BNC-75-4-15/133_NE	crimp
		crimp
U18	(G 04233, G 04273 D)	
Straight cable plugs	11_BNC-75-4-6/133_NH	crimp
	11_N-75-4-6/133_NE	clamp
	11_N-75-4-9/133_NE	crimp
	11_TNC-75-4-9/133_NE	crimp
Right angle cable plugs	16_BNC-75-4-5/133_NE	crimp
		crimp
Straight cable jacks	21_BNC-75-4-5/133_NE	crimp
		crimp
Straight bulkhead cable jacks	24_BNC-75-4-4/133_NE	crimp
		crimp
U23	(RG 6 A/U, G 05133 D)	
Straight cable plugs	11_N-75-5-2/133_NE	clamp
		clamp
U24	(G 05133 D)	
Straight cable plugs	11_BNC-75-5-6/133_NE	crimp
		crimp
U25	(S 06132 D)	
Straight cable plugs	11_N-50-6-1/133_NE	crimp
		crimp

Connector type		Cable entry
U28 (RG 165 /U, RG 213 /U, GX 07272)		
Straight cable plugs	11_716-50-7-3/003_-E	clamp
	11_BNC-50-7-1/133_NE	clamp
	11_N-50-7-5/133_NE	clamp
	11_N-50-7-6/133_NE	clamp
	11_TNC-50-7-2/133_NE	clamp
Right angle cable plugs	16_N-50-7-26/133_NE	clamp
Straight cable jacks	16_TNC-50-7-4/133_NE	clamp
	21_N-50-7-8/133_NE	clamp
Straight bulkhead cable jacks	24_N-50-7-8/133_NE	clamp
Straight panel cable jacks	25_N-50-7-8/133_NE	clamp
U29 (RG 213 /U)		
Straight cable plugs	11_716-50-7-1/003_-E	crimp
	11_BNC-50-7-7/133_NE	crimp
	11_N-50-7-43/133_NE	crimp
	11_QN-50-7-3/133_NE	crimp
Right angle cable plugs	16_N-50-7-29/133_NE	crimp
Straight cable jacks	16_N-50-7-30/133_NE	crimp
	16_QN-50-7-2/133_NE	crimp
Straight bulkhead cable jacks	21_716-50-7-1/003_-E	crimp
	21_N-50-7-13/133_NE	crimp
Straight panel cable jacks	24_BNC-50-7-3/133_NE	crimp
	24_N-50-7-14/133_NE	crimp
Straight panel cable jacks	24_QN-50-7-3/133_NE	crimp
	25_N-50-7-13/133_NE	crimp
U30 (s 07232, SX 07272)		
Straight cable plugs	11_N-50-7-33/133_NE	crimp
U31 (s 07232)		
	on request	crimp

Connector type		Cable entry
U32 (RG 214 /U, RG 214 U/highflex)		
Straight cable plugs	11_716-50-7-2/003_-E	crimp
	11_BNC-50-7-6/133_NE	crimp
	11_N-50-7-44/133_NE	crimp
	11_QN-50-7-1/133_NE	crimp
Right angle cable plugs	16_716-50-7-10/003_NE	crimp
Straight cable jacks	16_N-50-7-31/133_NE	crimp
	16_N-50-7-36/133_NE	crimp
	16_QN-50-7-1/133_NE	crimp
Straight bulkhead cable jacks	21_716-50-7-2/003_-E	crimp
	21_N-50-7-14/133_NE	crimp
Straight panel cable jacks	24_N-50-7-15/133_NE	crimp
	24_QN-50-7-2/133_NE	crimp
U33 (RG 214 /U, RG 214 /U)		
Straight cable plugs	11_716-50-7-4/003_-E	clamp
	11_BNC-50-7-2/133_NE	clamp
	11_N-50-7-5/133_NE	clamp
	11_N-50-7-6/133_NE	clamp
	11_N-50-7-61/133_NE	crimp
	11_QN-50-7-2/133_NE	crimp
	11_TNC-50-7-2/133_NE	clamp
Right angle cable plugs	16_716-50-7-10/003_-E	crimp
	16_BNC-50-7-6/133_NE	clamp
	16_N-50-7-26/133_NE	clamp
	16_N-50-7-28/133_NE	crimp
Straight cable jacks	16_QN-50-7-1/133_NE	crimp
	16_TNC-50-7-4/133_NE	clamp
Straight bulkhead cable jacks	21_N-50-7-8/133_NE	clamp
	24_N-50-7-8/133_NE	clamp
Straight panel cable jacks	24_N-50-7-24/133_NE	crimp
	24_QN-50-7-1/133_NE	crimp
U34 (RG 11 A/U)		
Straight cable plugs	11_BNC-75-7-5/133_NE	crimp
	11_N-75-7-16/133_NE	crimp
U35 (RG 11 A/U, RG 63 B/U)		
Straight cable plugs	11_N-75-7-4/133_NE	clamp
U36 (RG 216 /U)		
Straight cable plugs	11_N-75-7-18/133_NE	crimp
U37 (RG 216 /U)		
Straight cable plugs	11_N-75-7-4/133_NE	clamp
U40 (s 12272-4)		
	on request	
U44 (RG 218)		
	on request	
V1 (RG 108 A/U)		
Straight cable plugs	11_BNO-0-4-1/133_NH	crimp
Right angle cable plugs	16_BNO-0-4-1/133_NE	crimp
Straight cable jacks	21_BNO-0-4-1/133_NE	crimp
Straight bulkhead cable jacks	24_BNO-0-4-1/133_NE	crimp
V2 (G 5730)		
	on request	
W1 (G 02332)		
Straight cable plugs	11_BNT-50-2-1/103_NE	clamp
Straight bulkhead cable jacks	24_BNT-50-2-1/103_NE	clamp

For further connector information please see our Coaxial Connectors General Catalogue, item no. 644802.

RG (Radio grade)

Cable Replacement and Cross-Reference List

The following table summarises all RG type cables and their basic construction in numerical order. The designations RG... (e.g. RG_58_C/U) refers to ancient specifications and are not covered by valid specifications any more.

Cables according to valid MIL specifications have to be designated by M17/... (e.g. M17/155-00001). A part of the valid MIL specifications ask for identical cable characteristics as the ancient RG specifications (e.g. M17/155-00001).

Other valid MIL specifications, such as MIL/28-RG_58, specify the same cable construction as the ancient MIL specifications, but they additionally include higher requirements regarding the attenuation and the reflection characteristics of the cables. All cables not listed in this inventory have been canceled without replacement. HUBER+SUHNER will offer you low smoke free of halogen (LSFH) cables or recommended crosslinked PE alternatives on demand. Eg. for aerospace applications PVC is not allowed to be used.

RG-Type	Imped.	Center conductor		Dielectric		Screen / Armouring		Jacket		Designations according to MIL-C-17		HUBER+SUHNER alternative	
		Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree Operating temp. up to +100°C
RG_5_B/U													
RG_6_A/U	75 ± 3	SiCu	0.73	PE	4.80	CuAg / Cu	6.20	PVC 2	8.40	M17/199-00001	M17/162-00001		
										M17/180-00001	M17/2RG6		
RG_8_A/U													
RG_9_B/U													
RG_10_A/U													
RG_11_A/U	75 ± 3	CuSn	7 x 0.4	PE	7.25	Cu	8.10	PVC 2	10.30	M17/181-00001	M17/6-RG11		GX_07273
RG_12_A/U	75 ± 3	CuSn	7 x 0.4	PE	7.25	Cu	8.10	PVC 2	10.30	M17/181-00002 (armoured)	M17/6-RG12		
RG_13_A/U													
RG_14_A/U													
RG_17_A/U													
RG_18_A/U													
RG_19_A/U													
RG_20_A/U													

RG-Type	Imped.	Center conductor		Dielectric		Screen / Armouring		Jacket		Designations according to MIL-C-17		HUBER+SUHNER alternative	
Ω		Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree Operating temp. up to +100°C
RG_21_A/U		Canceled - Replacement: RG_222/U											
RG_22_B/U (Twinax)	95 ± 5	Cu	7 x 0.4	PE-core	2.25	CuSn / CuSn	8.70	PVC 2	10.80	M17/182-00001 M17/182-00002 (armoured)	M17/15-RG22		
RG_34_B/U	75 ± 3	Cu	7 x 0.62	PE	11.50	Cu	12.40	PVC 2	16.00	M17/209-00001... M17/209-00002 (armoured)	M17/24-RG_34, Cancelled without replacement		
RG_35_B/U (Armoured RG_164_U)	75 ± 3	Cu	2.65	PE	17.30	Cu	18.60	PVC 2	22.10				
Not manufactured by HUBER+SUHNER													
RG_55_B/U		Canceled - Replacement: RG_223_U											
RG_57_A/U		Canceled - Replacement: RG_130_U											
RG_58_C/U	50 ± 2	CuSn	19 x 0.18	PE	2.95	CuSn	3.60	PVC 2	4.95	M17/197-00001 M17/183-00001	M17/155-00001 M17/28-RG58	G_03272	GX_03272
RG_59_B/U	75 ± 3	SiCu	0.58	PE	3.70	Cu	4.40	PVC 2	6.10	M17/184-00001	M17/29-RG59	G_04263-03 G_04273	GX_04273
RG_62_A/U	93 ± 5	SiCu	0.62	PE/air	3.70	Cu	4.40	PVC 2	6.10	M17/185-00001	M17/30-RG62	RADOX	jacket on demand
RG_62_B/U	93 ± 5	SiCu	7 x 0.2	PE/air	3.70	Cu	4.40	PVC 2	6.10	(M17/185-00001)	M17/30-RG62		
RG_63_B/U	125 ± 6	SiCu	0.62	PE/air	7.25	Cu	8.10	PVC 2	10.30	M17/218-00001... M17/218-00002	M17/31-RG63		
RG_71_B/U	93 ± 5	SiCu	0.62	PE/air	3.70	Cu / CuSn	5.00	PE	6.20	M17/90-RG_71	---		
RG_74_A/U		Canceled - Replacement: RG_224/U											
RG_79_B/U (Armoured RG_63_B/U)	125 ± 6	SiCu	0.60	PE/air	7.25	Cu	8.10	PVC 2	10.30	M17/31-RG_79	---		
RG_87_A/U		Canceled - Replacement: RG_225_U											
RG_94_U		Canceled - Replacement: RG_226_U											

RG-Type	Imped.	Center conductor		Dielectric		Screen / Armouring		Jacket		Designations according to MIL-C-17			HUBER+SUHNER alternative	
	Ω	Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree	
RG_108_A/U (Twinax)	78 ± 7	CuSn	7 x 0.31 2 leads twisted ø 4.0 mm	PE-Core	2.00	CuSn	4.60	PVC 2	6.00	M17/186-00001	M17/45-RG108		Operating temp. up to +100°C	
RG_111_A/U (Twinax)	95 ± 5	Cu	7 x 0.4	PE Core	2.25	CuSn / CuSn	8.70	PVC 2	10.80	M17/182-00002	M17/15-RG111			
(Armoured RG_22_B/U)			PE-tube over 2 twisted leads ø 7.25 mm			Braid-armoured	12.30	—	—					
RG_116_U						old identification - for new designs use ⇒ Canceled - Replacement: RG_227_U								
RG_117_A/U						Canceled - Replacement: RG_211_A/U								
RG_118_A/U						Canceled - Replacement: RG_228_A/U								
RG_119_U	50 ± 2	Cu	2.60	PTFE	8.45	Cu / Cu	10.10	GSi	11.80	M17/156-00001	M17/52-RG119 (unarmoured)			
RG_120_U	50 ± 2	Cu	2.60	PTFE	8.45	Cu / Cu	10.10	GSi	11.80	M17/52-00001	M17/52-RG120 (armoured)			
(Armoured RG_119_U)						Braid-armoured	13.30	—	—					
RG_122_U	50 ± 2	CuSn	27 x 0.13	PE	2.50	CuSn	3.20	PVC 2	4.10	M17/198-00001	M17/157-00001			
(Not manufactured by HUBER+SUHNER)														
RG_140_U						Canceled - Replacement: RG_302_U								
RG_141_U	50 ± 2	SiCuAg	0.95	PTFE	2.95	CuAg	3.60	GSi	4.40	M17/170-00001 see also RG_303	---			
RG_142_B/U	50 ± 2	SiCuAg	0.95	PTFE	2.95	CuAg / CuAg	4.20	FEP	4.95	M17/158-00001	M17/60-RG142		GX_03272_D06 / EF_142	
RG_143_U						Canceled - Replacement: RG_304_U								
RG_144_U	75 ± 3	SiCuAg	7 x 0.45	PTFE	7.25	CuAg	8.00	GSi	10.40	M17/62-RG_144	---		(GX_07273)	
(Not manufactured by HUBER+SUHNER)														
RG_149_U						Canceled - Replacement: RG_391_U								
RG_150_U						Canceled - Replacement: RG_392_U								
RG_164_U	75 ± 3	Cu	2.65	PE	17.3	Cu	18.60	PVC 2	22.10	M17/209-00001... M17/209-00002 (armoured)	M17/64-RG164			
(old identification - for new designs use ⇒)														
RG_165_U*	50 ± 2	CuAg	7 x 0.79	PTFE	7.25	CuAg	8.00	GSi	10.40	M17/159-00001	M17/65-RG165		GX_07272	

RG-Type	Imped.	Center conductor		Dielectric	Screen / Armouring		Jacket		Designations according to MIL-C-17			HUBER+SUHNER alternative		
	Ω	Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree	
RG_166_U*	50 ± 2	CuAg	7 x 0.79	PTFE	7.25	CuAg	8.00	GSi	10.40	---	M17/65-RG166		Operating temp. up to +100°C	
(Armoured RG_165_U)						BraidarmouredAluminium alloy	11.90	---	---					
RG_174_A/U	50 ± 2	SiCu	7 x 0.16	PE	1.50	CuSn	2.00	PVC 2	2.80	M17/173-00001 M17/196-00001	M17/119-RG174	G_02262	GX_02272	
RG_177_U	50 ± 2	Cu	5.00	PE	17.3	CuAg / CuAg	18.90	PVC 2	22.70	M17/160-00001 M17/212-00001 M17/210-00001	M17/67-RG177		EF_178 EF_179	
old identification - for new designs use ⇒														
RG_178_B/U	50 ± 2	SiCuAg	7 x 0.1	PTFE	0.83	CuAg	1.30	FEP	1.80	M17/169-00001	M17/93-RG178		EF_178	
RG_179_B/U	75 ± 3	SiCuAg	7 x 0.1	PTFE	1.53	CuAg	2.00	FEP	2.54	M17/94-RG179	---		EF_179	
RG_180_B/U	95 ± 5	SiCuAg	7 x 0.1	PTFE	2.60	CuAg	3.10	FEP	3.60	M17/95-RG180	---			
RG_187_A/U	75 ± 3	SiCuAg	7 x 0.1	PTFE	1.53	CuAg	2.65	PFA	2.00	---	---			
RG_188_A/U	50 ± 2	SiCuAg	7 x 0.18	PTFE	1.54	CuAg	2.00	PFA	2.60	---	---			
RG_195_A/U	95 ± 5	SiCuAg	7 x 0.1	PTFE	2.52	CuAg	3.10	PFA	3.70	---	---			
RG_196_A/U	50 ± 2	SiCuAg	7 x 0.1	PTFE	0.83	CuAg	1.30	PFA	1.95	M17/169-00001	M17/71			
RG_210_U	93 ± 5	SiCuAg	0.60	PTFE/air	3.70	CuAg	4.50	GSi	6.10	M17/97-RG_210	---			
Not manufactured by HUBER+SUHNER														
RG_212_U	50 ± 2	CuAg	1.40	PE	4.70	CuAg / CuAg	6.20	PVC 2	8.40	M17/162-00001	M17/73-RG212 M17/199-00001			
old identification - for new designs use ⇒														
RG_213_U	50 ± 2	Cu	7 x 0.75	PE	7.25	Cu	8.10	PVC 2	10.30	M17/213-00001	M17/74-RG213 M17/163-00001	G_07262	GX_07272	
RG_214_U	50 ± 2	CuAg	7 x 0.75	PE	7.25	CuAg / CuAg	8.70	PVC 2	10.80	M17/164-00001	M17/75-RG214	G_07262-D	GX_07272_D	
RG_215_U	50 ± 2	Cu	7 x 0.75	PE	7.25	Cu	8.10	PVC 2	10.30	---	M17/74-RG215			
(Armoured RG_213_U)						Braid-armouring	11.80	---	---					
RG_216_U	75 ± 3	CuSn	7 x 0.4	PE	7.25	Cu / Cu	8.70	PVC 2	10.80	M17/191-00001	M17/77-RG216	G_07273_D		
old identification - for new designs use ⇒														
RG_217_U	50 ± 2	Cu	2.68	PE	9.40	Cu / Cu	11.20	PVC 2	13.80	M17/215-00001	M17/165-00001			
old identification - for new designs use ⇒														

RG-Type	Imped.	Center conductor		Dielectric		Screen / Armouring		Jacket		Designations according to MIL-C-17			HUBER+SUHNER alternative	
		Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree	
RG_222_U	50 ± 2	CrNi	1.41	PE	4.70	CuAg / CuAg	6.20	PVC 2	8.50	M17/162-00001	M17/199-00001		Operating temp. up to +100°C	
High attenuation cable														
RG_223_U	50 ± 2	CuAg	0.89	PE	2.95	CuAg CuAg	3.55 4.20	PVC 2	5.40	M17/167-00001	M17/84-RG223 M17/200-00001	G_03262_D		
RG_224_U	50 ± 2	Cu	2.68	PE	9.40	Cu / Cu	11.20	PVC 2	13.80	M17/215-00001	M17/165-00002			
(Armoured RG_217_U)						Braid-armoured	15.40	—	—					
RG_225_U*	50 ± 2	CuAg	7 x 0.79	PTFE	7.25	CuAg / CuAg	8.70	GSi	10.90	M17/86-00001	—			
RG_227_U*	50 ± 2	CuAg	7 x 0.79	PTFE	7.25	CuAg / CuAg	8.70	GSi	10.90	M17/86-00002	M17/86-00002			
(Armoured RG_225_U)						Braid-armoured	12.40	—	—	(armoured)				
Canceled - Replacement: RG_179_U														
RG_235_A/U														
RG_302_U	75 ± 3	SiCuAg	0.64	PTFE	3.70	CuAg	4.30	FEP	5.10	M17/110-RG302	—			
RG_303_U	50 ± 2	SiCuAg	0.95	PTFE	2.95	CuAg	3.60	FEP	4.30	M17/170-00001	M17/111-RG_303 superseded RG_141_A/U			
RG_304_U	50 ± 2	SiCuAg	1.50	PTFE	4.70	CuAg/CuAg	6.30	FEP	7.10	M17/171-00001	M17/112-RG304			
RG_307_A/U	75 ± 4	CuAg	19x0.148	SPE	3.70	CuAg	4.50	PUR	5.20	M17/116-RG_307	—			
(Triaxial)						CuAg	7.50	PE	6.70					
RG_316_U	50 ± 2	SiCuAg	7 x 0.18	PTFE	1.54	CuAg	2.00	FEP	2.50	M17/172-00001	M17/113-RG316		EF_316	
RG_393_U*	50 ± 2	CuAg	7 x 0.79	PTFE	7.25	CuAg CuAg	8.00 8.70	FEP	9.90	M17/174-00001	M17/127-RG393		GX_07272_D EF_393	
RG_400_U	50 ± 2	CuAg	19 x 0.2	PTFE	2.95	CuAg CuAg	3.60 4.20	FEP	4.95	M17/175-00001	M17/128-RG400		EF_400	
RG_401_U (Semi-Rigid)	50±0.5	CuAg	1.63	PTFE	5.31	Cu-tube	6.30	—	—	M17/129-00001	M17/129-RG401			
HUBER+SUHNER Alternative: EZ_250/M17														
RG_402_U (Semi-Rigid)	50 ± 1	SiCuAg	0.92	PTFE	3.00	Cu-tube	3.60	—	—	M17/130-00001	M17/130-RG402			
HUBER+SUHNER Alternative: EZ_141/M17														

RG-Type	Imped.	Center conductor		Dielectric		Screen / Armouring		Jacket		Designations according to MIL-C-17			HUBER+SUHNER alternative	
		Material	Ø mm	Material	Ø mm	Construction	Ø mm	Material	Ø mm	For new designs use specification	Former designation	Halogen-free	Flame retard./ halogenfree Operating temp. up to +100°C	
RG_403_U (Triaxial)	50 ± 2	CuAg	7 x 0.1	PTFE	0.83	CuAg	1.30	FEP	1.90	---	M17/131-RG403			
						CuAg	2.40	FEP	3.10					
RG_404_U (Low noise)	50 ± 2	SiCuAg	7 x 0.1	PTFE semicond.	0.87 0.90	CuAg	1.40	FEP	1.90	M17/132-00001	M17/132-RG404			
RG_405_U (Semi-Rigid)	50±1.5	SiCuAg	0.51	PTFE	1.68	Cu-tube	2.20	---	---	---	M17/133-RG405			
HUBER+SUHNER Alternative: EZ_86/M17														

* Dielectric material and diameter of H+S types deviate slightly in the ~1/100 mm range from the stated values to reach best impedance and return loss values.

For further current information please link to <http://www.dsee.dla.mil/Programs/MilSpec/> (search for: MIL-C-17)

Glossary

Abrasion Resistance

The ability of a material to resist surface wear or damage by mechanical means.

Aging Stability Test

A test to determine the flexibility of a cable after temperature cycling.

American Wire Gauge (AWG)

A standard for describing the size of a wire. The gauge varies inversely with the actual wire diameter. The change of 3 AWG numbers doubles or halves the conductivity and halves the weight of a copper wire.

Aramid yarn

Trademark for carbon fibre yarn, which is formed into thin fibers and twisted and plied into yarns. It is used as protective braiding for cables. Normally saturated with silicone-base varnish to seal against moisture. Aramid yarn is very flame and abrasion resistant.

Armour

A protective covering normally applied over a jacket. Usually constructed with helically wrapped steel tapes or wires, or a steel wire braid.

Attenuation (α)

The decrease of a signal with the distance in the direction of propagation. Attenuation may be expressed as the scalar ratio of the input magnitude to the output magnitude,

$$\alpha \text{ [dB/m]} = 10 \cdot \log \frac{P_{out}}{P_{in}},$$

or as the ratio of the input signal voltage to the output signal voltage.

$$\alpha \text{ [dB/m]} = 20 \cdot \log \frac{U_1}{U_2}.$$

U_1 = Input signal voltage at the cable entry

U_2 = Output signal voltage at the cable outlet

Attenuation Stability

The change in attenuation of a coaxial cable after being subjected to specified temperature cycles and mechanical deformations.

Bandwidth

The range of frequencies for which performance falls within specified limits.

Bending Radius:

Minimum static: The minimum permissible radius for fixed installation of the cable. This radius is used in climatic tests.

Minimum dynamic: The minimum permissible radius for flexible applications of the cable.

BIT

An abbreviation of binary digit; smallest unit of information and basic unit in digital data communications. A bit can have a zero or a one value (a mark or a space in data communications terminology).

BNC (Bayonet Navy Connector)

Coaxial connector with bayonet coupling mechanism. Available in 50 Ohm and 75 Ohm versions. Frequency range DC -4 GHz (50 Ohm) and 1 GHz (75 Ohm), respectively.

BNO

Connector with bayonet coupling mechanism suitable for shielded balanced twin cables.

BNT

Connector with bayonet coupling mechanism suitable for triaxial cables.

Braid

Woven wire used as shielding for insulated wires and cables. Also, a woven fibrous protective outer covering over a conductor or cable.

Braid Angle

The angle between the axis of the cable and the axis of any one member or strand of the braid (also known as angle of advance).

Breakdown Voltage

The voltage at which a disruptive discharge takes place through or over the surface of the insulation.

Bunch Stranded Conductor

All strands having a random position within the conductor. No distinct layers are formed.

Cable Assembly

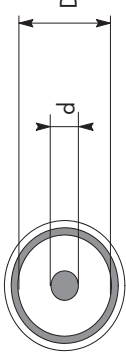
A combination of cable and connectors with specified performance, used as a single unit.

Capacitance (C)

The ability of a dielectric material between two conductors to store electric energy. For coaxial cables, the capacitance per meter is:

$$C = 3.336 \cdot 10^3 \frac{\sqrt{\epsilon_r}}{Z_0} \text{ or } C = \frac{\epsilon_r}{18 \cdot 10^{-3} \cdot \ln \frac{D}{d}} \text{ [pF/m]}$$

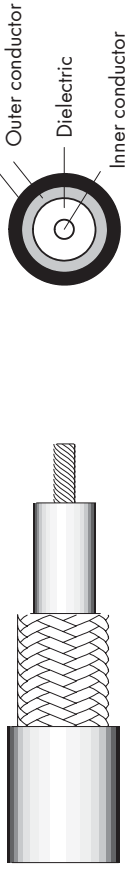
where ϵ_r = dielectric constant
 Z_0 = Impedance [W]



Cellular Polyethylene (SPE)

Polyethylene with homogeneously distributed individual gas cells included (foam). Used primarily as a dielectric material and has an extremely low dielectric constant and power factor. Limited to operation below + 70 °C.

Coaxial Cable



Cold Bend Test

A test of the cable to withstand flexing at low temperature.

Cold Flow

Relaxation of a built-in stress by slow deformation of the material at room temperature. Found in PTFE compounds in particular.

Concentric Stranding

A construction where the components are laid helically around a circular core to form layers. Consecutive layers have alternating direction of lay.

Conductivity

A measure of the ability of a material to conduct electric current under a given electric field. Resistivity is the reciprocal of conductivity.

Copolymer

A compound resulting from the chemical reaction of two or more chemically different monomers with each other.

Corona

A luminous discharge due to ionization of the air surrounding a conductor caused by a voltage gradient exceeding a certain critical value.

Coverage

A calculated percentage which defines the completeness with which a braid or shield covers the surface of the underlying component.

Crimp

Act of compressing (deforming) a connector barrel around a cable in order to make an electrical connection. For more detailed description refer to our connector general catalogue.

Crosslinking

The generation of chemical links between the molecular chains, usually achieved by chemical reactions or high energy irradiation of the material.

Cross talk

Signal interference between adjacent conductors caused by the pickup of stray energy.

Cutoff frequency (f_G)

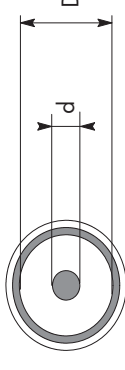
The frequency, above which other than the TEM₀₀ mode may occur along the RF cable. The transmission characteristics of cables above their cutoff frequency may be unstable due to the different propagation velocity of the different stretches of way of the signal.

$$f_G = \frac{2 \cdot c}{\pi \sqrt{\epsilon_r}} \cdot \frac{1}{D + d} \text{ [Hz]}$$

where ϵ_r = dielectric constant

c = speed of light 3×10^{11} mm/s

d/D = diameters in mm



dBm

Absolute measure of signal power where 0 dBm is equal to one milliwatt. See also decibel.

Decibel, dB

A relative, dimensionless unit calculated as ten times the logarithm to the base 10 of a power ratio.

Delay Line

A cable that delays electrical signals by a specified amount of time.

Dielectric

In a coaxial cable, the insulation between inner and outer conductor. It significantly influences the electrical characteristics such as impedance, capacitance, and velocity of propagation.

Dielectric constant (Permittivity)

Basic electrical property of a material that describes its behaviour in an electric field. The dielectric constant of the dielectric is the most important design parameter for coaxial cables and determines dimensions, losses and propagation characteristics.

Dielectric Loss

In a coaxial cable, the losses caused by the transformation of electromagnetic energy into heat within the dielectric material.

Dielectric Loss Factor (Dielectric Loss Index)

A measure of the loss characteristics of a dielectric material.

Dielectric Strength

The voltage which an insulating material can withstand before electrical breakdown occurs.

DIN 7/16

50 Ω coaxial connector with screw type coupling mechanism. Suitable for medium to high power applications. Frequency range DC - 7.5 GHz.

Dissipation Factor (loss tangent, tan δ)

See Dielectric Loss Factor.

E

Eccentricity

A measure of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of center displacement of one circle within the other.

Elastomer

A material which at room temperature stretches under stress to at least twice its length and snaps back to original length upon release of stress.

Electric Strength (Dielectric Strength)

See dielectric strength.

Electromagnetic Compatibility (EMC)

EMC describes the ability of an electrical system to avoid electromagnetic interference with the environment.

Elongation

The fractional increase in length of a material under tension.

ETFE (Ethylenetetrafluoroethylene)

ETFE polymers are tough, high temperature resistant thermoplastics with excellent characteristics: non-ageing properties, chemical inertness, very good dielectric properties, weather resistance and low moisture absorption.

Ethernet

A de facto standard in LAN technology. An Ethernet LAN uses coaxial cables in such a way, that members can share the same cable to communicate with each other.

Extrusion

Method of forcing thermoplastic, rubber or elastomer material under elevated temperature through a die to apply an insulation or a jacket to a cable.

F

Unit of capacitance. It indicates the charge per potential difference:

$$\text{Capacitance in Farad} = \frac{\text{Charge in Coulomb}}{\text{Potential difference in Volt}}$$

FEP (Fluorinated Ethylene Propylene)

FEP is similar to PTFE but is easier to process. Heat resistance and chemical inertness are outstanding.

Fibre Optic Cable

Glass filament cable for the transmission of signals in the form of light. For more details refer to our fibre optic catalogue.

Filler

Material used as dummies to achieve circular cross section.

Flame Resistance

Property of a material to cease combustion once the heating flame is removed.

Flammability

Property of a material to support combustion.

Flex Life

Number of cycles a cable can withstand before failure when bent around a specific radius.

Heat shock

Test to determine the stability of a material when exposed to a sudden high temperature for a short period of time.

Heat Endurance

The time of thermal aging that a material can withstand before failing specified tests.

H+S

HUBER+SUHNER - your partner for excellent connectivity solutions.

IEC

Abbreviation for International Electrotechnical Commission.

IEC 60331

Horizontal flame test.

IEC 60332-1,-2,-3

Vertical flame tests (with high power and temperature than the horizontal)).

IEEE

Abbreviation for Institute of Electrical and Electronics Engineers.

IEEE 60383

Vertical flame test similar to IEC 60332-3.

IM / PIM (Passive Intermodulation)

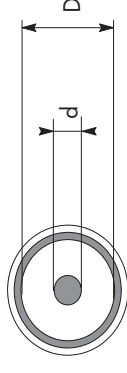
The generation of new (and in the case of cable assemblies undesirable) signals (intermodulation products) at the non-linear characteristics of transmission elements.

Impedance (characteristic, Z_0)

Characteristic property of a transmission line describing the ratio between electric and magnetic fields. For coaxial cables, the characteristic impedance is basically given by the permittivity of the dielectric and the dimensions of the conductors:

$$Z_0 = \frac{60}{\sqrt{\epsilon_r}} \ln \left(\frac{D}{d} \right) [\Omega]$$

where ϵ_r = dielectric constant



Insulation Resistance

The resistance between the conductors of a cable for a given cable length.

Irradiation

Crosslinking of material with high energy radiation. In suitable materials, irradiation causes cross links between the molecules leading to improved mechanical stability with temperature.

ISO

Abbreviation for International Standards Organization.

LAN

Abbreviation for Local Area Network. A data communications network confined to a limited geographic area (up to 6 miles or about 10 kilometers).

LM (Low Migratory, see PVC 2 (LM))

See PVC 2 (LM).

Low Noise Cable

Cable specially constructed to avoid spurious electrical disturbances caused by mechanical movements.

LSFH

Abbreviation for Low Smoke free of Halogen.

MCX (MICROAX)

Micro-miniature coaxial connector with snap-on coupling mechanism. Available in 50 Ω and 75 Ω versions. Frequency range DC - 6 GHz.

MHV H4 (Miniature High Voltage)

Coaxial connector with bayonet coupling mechanism. Working voltage 2.2 kV DC.

Migration of Plasticizer

Loss of plasticizer from an elastomeric plastic compound with subsequent absorption to an adjacent medium of lower plasticizer concentration.

MIL

Abbreviation for military.

Mil

One-thousandth of an inch.

MMBX

50 Ω -Microminiatur-Board Connector for applications up to 6 GHz.

MMCX

50 Ω -Microminiatur Connector "Snap-Lock" for applications up to 6 GHz.

N (Navy Connector)

Coaxial connector with screw type coupling mechanism. Available in 50 Ohm and 75 Ohm versions. Frequency range DC - 18 GHz (50 Ohm) and 1 GHz (75 Ohm), respectively.

Neper

Natural logarithm of a voltage ratio.

Conversion: $\alpha [N/m] = 8.686 \cdot \alpha [dB/m]$

Noise

Random electrical signals, generated by circuit components or by natural disturbances.

Non-Contaminating Polyvinylchloride

A polyvinylchloride which has been compounded with an inorganic plasticizer to prevent contamination of a polyethylene dielectric.

PA (Polyamide)

A resin used primarily as a jacket material having superior abrasion resistance, resistance to aliphatic solvents, but relatively high moisture absorption. Temperature -40° to 80 °C. Is inflammable.

PE (Polyethylene)

A resin compounded with various additives for use as an insulation, dielectric or jacket material. This material is light, tough, permanently flexible, has good resistance to chemicals, non-oxidizing acids and aromatic solvents, a low moisture absorption, and good tensile and tear strength. Temperature range -40° to 85 °C. In addition, it has a low dielectric constant and dissipation factor.

PEX (Polyethylene crosslinked)

Temperature range -40 °C to +100 °C

PEEK (Polyetheretherketone)

The thermally most stable and chemically resistant carbonaceous compound. It is unaffected by sunlight, moisture and virtually all chemicals. Electrical performs nearly like PTFE. Temperature range -180 °C to +250 °C. Radiation resistant!

Permittivity Relative

Synonym term for relative dielectric constant ϵ_r .

PETE (Polyethylene Terephthalate, Hytrel® , DuPont)

Thermoplastic Polyether Ester Elastomer is the ideal material for RF cable jackets requiring excellent flex fatigue, resistance to tearing, creep and abrasion resistance at a range of temperatures and difficult chemical conditions.

PETP (Polyester Foil)

PFA (Perfluoroalkoxy)

Perfluoroalkoxy resins combine the processing ease of conventional thermoplastics with properties similar to PTFE.

Phase

A particular stage or point of advancement in an electrical cycle. The fractional part of the period through which the time has advanced, measured from some arbitrary point. Usually expressed in electrical degrees where 360 degrees represent one cycle.

Phase Shift

Change in phase of a voltage or current after passing through a circuit or cable.

Phase Stability

Variation of the electrical length of a cable as a function of - for example - the temperature or mechanical stressing such as bending or torsion. Formulation, refer also to Attenuation Stability.

PI (Polyimide, Kapton® , DuPont)

Properties of PI are its solvent resistance, barrier properties and performance at both high and low temperature extremes (-269 °C up to +350 °C). Extremely low flammability (UL 94 V-0). PI is very resistant to radiation.

Plasticizer

Chemical agent added to plastics to make them softer and more flexible.

Plenum Cable

A cable having adequate fire resistance and low smoke producing characteristics for installation without conduit in ducts, plenums, and other spaces used for environmental air, as permitted by NEC Articles 725-2(b) and 800-3(b).

Power Handling Capacity

Average power which a cable can handle without exceeding its maximum operating temperature.

PP (Polypropylene)

A polymer similar to PE, but stiffer and harder and not usable at temperatures <~-10 °C.

PTFE (Polytetrafluoroethylene)

The thermally most stable and chemically most resistant carbonaceous compound. It is unaffected by sunlight, moisture, and virtually all chemicals. Temperature range is -200°C to +260 °C. Electrical properties are very constant over temperature and a wide range of frequencies.

PUR (Polyurethane)

Thermoplastic polymer used for cables as an extruded jacket. Exhibits extreme toughness and abrasion resistance..

PVC (Polyvinylchloride)

Plasticized vinyl resin used as an insulation or jacket material which exhibits the property of high electrical resistivity, good dielectric strength, excellent mechanical toughness, superior resistance against oxygen, ozone, most common acids, alkalies and chemicals. Flame-resistance, oil-resistance and the temperature range (-25° to +85 °C) are depending on the compound. HUBER+SUHNER uses only leadfree PVC.

PVC 2 (LM)

Non migration PVC ($\Delta Q < 3.3$) for excellent useful product lifetime (and MIL applications). HUBER+SUHNER uses only leadfree PVC.
Temperature range: -25 °C to +85 °C.

PVC (UL)

Flame retardant PVC, temperature range: -25 °C to +105 °C.

Q_{LA}

50 Ω subminiature connector with quick latch coupling mechanism for applications up to 1.4 GHz.

QMA

50 Ω subminiature connector with QUICK-LOCK coupling mechanism for applications up to 18 GHz.

QN

50 Ω subminiature connector with QUICK-LOCK coupling mechanism for applications up to 11 GHz.

R_{adox}® 125

Trademark of HUBER+SUHNER for crosslinked, flame retardant, heat resistant and halogenfree insulation and jacket materials.

Reflection

See VSWR.

RG

Radio Grade. Terms that originate with the military. Very old and well known MIL-C-17 standard design.

RL

Return loss is a number that indicates the amount of signal that is reflected back into the input of a RF signal path (p.e. possible little cable impedance discontinuities, connectors, terminating equipment). It is generally specified in dB and larger values are better as they indicate less reflection. Ideally, there would be no reflection and return loss would have a value of infinity. Generally, values of 25 dB to 34 dB to are considered well acceptable for a cable assembly to 6 GHz (34 dB indicates that only 2 % of the signal is reflected, VSWR 1.04).

RoHS

Restriction of the use of certain **Hazardous Substances**.

Screening Effectiveness

Ratio of the power fed into a coaxial cable to the power transmitted by the cable through the outer conductor (refer also to section "M").

Self-Extinguishing

The ability of a material to extinguish its own flame after the heating flame is removed.

Shield

A conducting housing or screen that substantially reduces the effect of electric or magnetic fields on one side thereof, upon devices or circuits on the other side. Cable shields may be solid, braided, or taped (longitudinally or spirally).

SHV (Safe High Voltage)

Coaxial connector with bayonet coupling mechanism. Working voltage 5 kV DC.

Skin Effect

The phenomenon wherein the depth of penetration of electric currents into a conductor decreases as the frequency of the current increases e.g. only the wire surface of 1.5 μm thickness is useable at 1 GHz.

SMA (Subminiature A)

50 Ω - Subminiature coaxial connector with screw type coupling mechanism. Frequency range DC - 18 GHz.

SMB (Subminiature B)

Subminiature coaxial connector with snap-on coupling mechanism. Frequency range DC - 4 GHz.

SMC (Subminiature C)

Subminiature coaxial connector with screw type coupling mechanism. Frequency range DC - 10 GHz.

SMPX

Microminiature precision connector for applications up to 40 GHz.

SMS

Subminiature coaxial connector with slide-on coupling mechanism. Frequency range DC - 4 GHz.

SPE (Polyethylene)

Polyethylene with homogenously distributed individual gas cells included (foam). Used primarily as a dielectric material and has an extremely low dielectric constant and power factor. Limited to operation below +85 °C.

SPEX (Polyethylene crosslinked)

Temperature range: -40 °C to +105 °C.

SSMA (Sub-Subminiature A)

Sub-Subminiature coaxial connector with screw type coupling mechanism. Frequency range DC - 40 GHz.

Stranded Conductor

A conductor composed of several wires or a group of wires. The members of a stranded conductor are usually twisted or bunched together.

Tensile Strength

Normally refers to the ultimate tensile strength, which is the breaking strength per square inch of cross-sectional area of the material tested.

Thermoplastic

A classification of resin that can be readily softened and resoftened by repeated heating.

TNC (Threaded Navy Connector)

Coaxial connector with screw type coupling mechanism. Available in 50 Ohm and 75 Ohm versions. Frequency range DC - 11 GHz (50 Ohm) and DC - 1 GHz (75 Ohm), respectively.

Transfer Impedance

Ratio of a longitudinal voltage on the disturbed side of a cable screen to the interference current on the disturbing side, relative to the length (refer also to section "M").

Triaxial Cable

A cable consisting of one centre conductor and two outer concentric conductors (with an insulating layer separating them). Notable for increased shielding efficiency.

Twinaxial Cable

Two conductors that are insulated from one another, twisted together and surrounded by a common shield.

U_{HF}

Coaxial connector with screw type coupling mechanism. Non-defined impedance. Frequency range DC - 200 MHz.

UL

Abbreviation for Underwriters Laboratories Inc., an American Standards Institution.

Unidirectional Stranding

A term denoting that in a stranded conductor all layers have the same direction of lay.

Unilay

See Unidirectional Stranding.

V_{elocity of Signal Propagation (v_R)}

Applied to coaxial cables, it indicates the propagation speed of an electrical signal within the cable.

$$v_R = \frac{c}{\sqrt{\epsilon_r}} \quad [m/s] \quad \text{also:}$$

$$\frac{v_R}{c} \cdot 100 = \frac{100}{\sqrt{\epsilon_r}} \quad [\% \text{ of } c]$$

where c = speed of light 3×10^8 m/s
 ϵ_r = dielectric constant

Voltage Rating

The voltage that may be continuously applied to the cable.

Voltage Withstand

See Breakdown Voltage.

VSWR

Abbreviation for Voltage Standing Wave Ratio. The ratio of the maximum to minimum voltage set up along a transmission by reflections.

WEEE

Waste Electrical and Electronic Equipment.

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644817/08.2008

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