

Teflon-Kabel 50 Ohm

Allgemeine technische Daten:

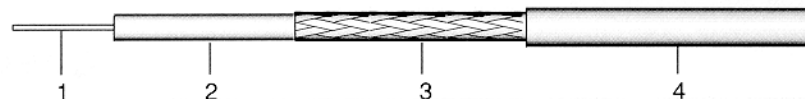
Impedanz	50 Ω
Kapazität PTFE	94 pF/m
Kapazität PFA / FEP	96 pF/m
Signalfortpflanzungsgeschw. PTFE	71 % der Lichtgeschwindigkeit
Signalfortpflanzungsgeschw. PFA / FEP	69 % der Lichtgeschwindigkeit
Isolationswiderstand	$>10^8$ M Ω m
Min. Biegeradius statisch	5 x $\varnothing$
Min. Biegeradius dynamisch	15 x $\varnothing$
Temperaturbereich	-100°C bis +260°C (+200°C FEP)

Teflon Cables 50 Ohm

General technical data:

<i>Impedance</i>	50 Ω
<i>Capacitance PTFE</i>	94 pF/m
<i>Capacitance PFA / FEP</i>	96 pF/m
<i>Velocity of signal propagation PTFE</i>	71 % of the speed of light
<i>Velocity of signal propagation PFA / FEP</i>	69 % of the speed of light
<i>Insulation resistance</i>	$>10^8$ M Ω m
<i>Min. bending radius static</i>	5 x $\varnothing$
<i>Min. bending radius dynamic</i>	15 x $\varnothing$
<i>Temperature range</i>	-100 °C to +260 °C (+200 °C FEP)

Einfach geschirmte Kabel Single screened cables



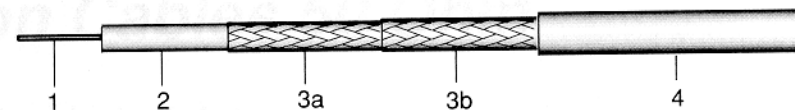
Suhner Typ Suhner type	Verbinder- gruppe Connector group	Imp. Tol. $\pm \Omega$	Betrieb Working kV_{eff} kV_{rms}	Dämpf. Atten. Kurve Nr. Curve No.	Leistung Power Kurve Nr. Curve No.	Gewicht Weight kg/100m	1 Innenleiter Center conductor			2 Dielektr. Dielectric		3 Abschirm. Screen			4 Mantel Jacket		
							Mat. Mat.	Aufbau Constr.	ϕ mm	Mat. Mat.	ϕ mm	Mat. Mat.	%	ϕ mm	Mat. Mat.	Farbe Colour	ϕ mm
K 01152-07	U1/k	5	0.4	C4 a	C5 a	0.37	CuAg	Litze/strand	0.19	PFA	0.52	CuAg	87	0.9	PFA	ws / wh	1.2
RG 178 B/U	U1	2	1.0	C4 b	C5 b	0.84	StCuAg	Litze/strand	0.30	PTFE	0.83	CuAg	96	1.3	FEP	br / br	1.8
RG 196 A/U	U1	2	0.5	C4 b	C5 b	0.92	StCuAg	Litze/strand	0.30	PTFE	0.83	CuAg	96	1.3	PFA	ws / wh	1.95
K 02292	U2	2	0.8	C4 d	C5 d	1.50	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	GSI	br / br	2.6
RG 188 A/U	U2	2	0.8	C4 d	C5 d	1.68	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	PFA	ws / wh	2.6
RG 188 A/U-01	U2	2	1.4	C4 c	C5 c	1.61	StCuAg	Litze/strand	0.54	FEP	1.50	CuAg	96	2.0	FEP	br / br	2.5
M17/113-RG316	U2	2	1.0	C4 d	C5 d	1.61	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	FEP	br / br	2.5
RG 316 /U	U2	2	1.0	C4 d	C5 d	1.61	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	FEP	br / br	2.5
RG 316 /U-08	U2	2	0.8	C4 d	C5 d	1.61	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	FEP	sw / bk	2.5
RG 316 /U-09	U2	2	0.8	C4 d	C5 d	1.61	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	FEP	rt / rd	2.5
RG 316 /U-10	U2	2	0.8	C4 d	C5 d	1.61	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg	95	2.0	FEP	ws / wh	2.5
RG 141 A/U	U7	2	1.7	C4 f	C5 f	4.70	StCuAg	Draht/wire	0.95	PTFE	2.95	CuAg	96	3.6	GSI	br / br	4.4
RG 303 /U	U7	2	2.5	C4 f	C5 f	4.48	StCuAg	Draht/wire	0.95	PTFE	2.95	CuAg	96	3.6	FEP	br / br	4.3
K 07252	*	2	6.7	C4 i	C5 i	19.4	CuAg	Litze/strand	2.46	FEP	7.25	CuAg	97	8.1	FEP	sw / bk	9.1
RG 165 /U	U28	2	4.1	C4 k	C5 k	19.4	CuAg	Litze/strand	2.46	PFA	7.25	CuAg	95	8.0	GSI	br / br	10.4

* Stecker auf Anfrage / Connectors on request



Doppelt geschirmte Kabel Double screened cables

Allgemeine technische Daten:

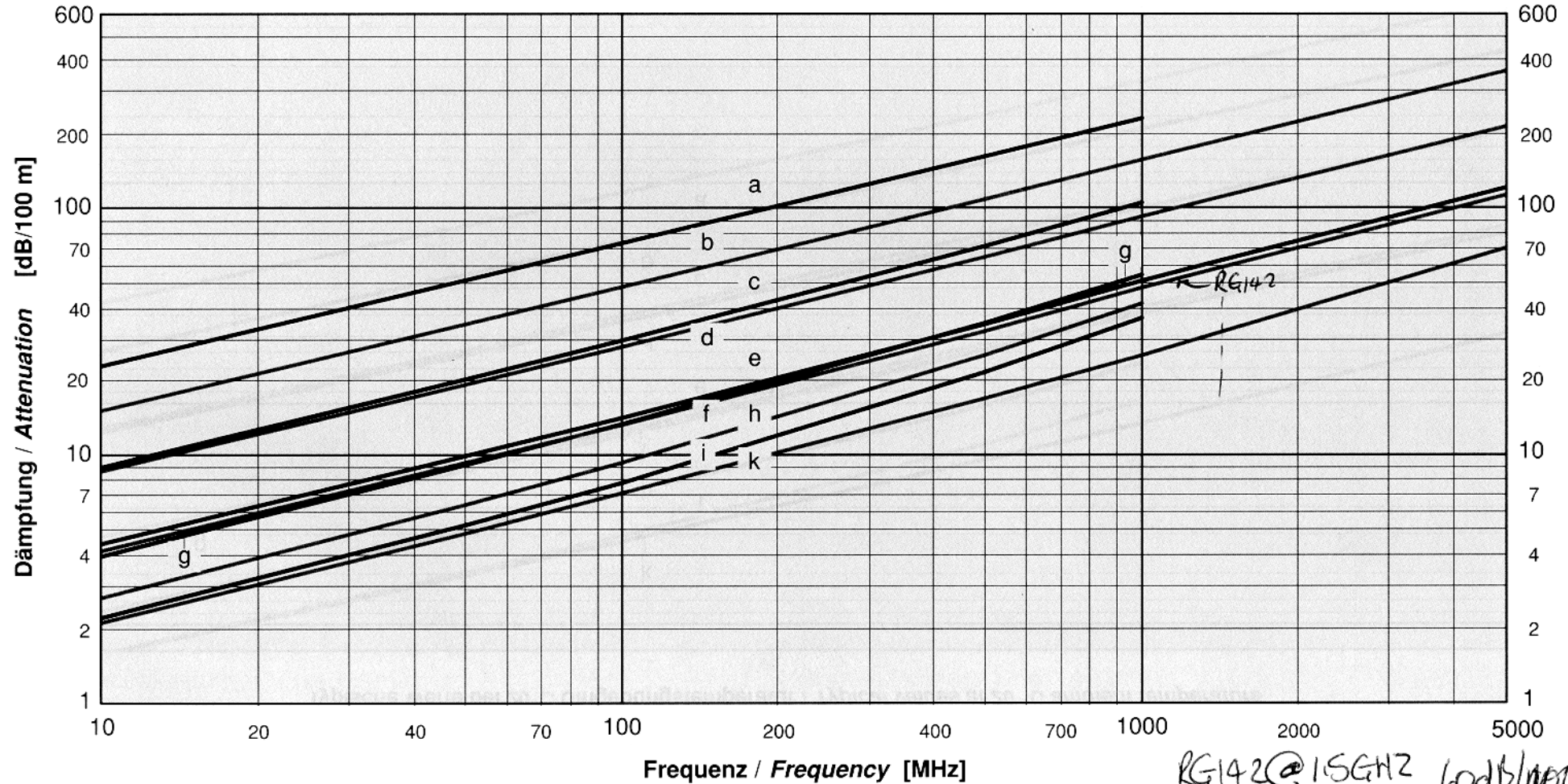


Suhner Typ Suhner type	Verbinder- gruppe Connector group	Imp. Tol. $\pm \Omega$	Betrieb Working kV_{eff} kV_{rms}	Dämpf. Atten. Kurve Nr. Curve No.	Leistung Power Kurve Nr. Curve No.	Gewicht Weight kg/100m	1 Innenleiter Center conductor			2 Dielektr. Dielectric		3a/b Abschirm. Screen			4 Mantel Jacket		
							Mat. Mat.	Aufbau Constr.	ϕ mm	Mat. Mat.	ϕ mm	Mat. Mat.	%	ϕ mm	Mat. Mat.	Farbe Colour	ϕ mm
K 01252 D	*	2	0.5	C4 b	C5 b	1.48	CuStAg	Litze/strand	0.30	PTFE	0.83	CuAg CuAg	96 92	1.3 1.8	FEP	br / br	2.4
K 02252 D	U4	2	0.8	C4 d	C5 d	2.41	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg CuAg	97 91	2.0 2.5	FEP	br / br	3.0
K 02252 D-02	U4	2	0.8	C4 d	C5 d	2.41	StCuAg	Litze/strand	0.54	PTFE	1.54	CuAg CuAg	95 94	2.0 2.5	FEP	sw / bk	3.0
K 02252 D-08	U4	2	1.4	C4 c	C5 c	2.41	CuAg	Litze/strand	0.54	FEP	1.54	CuAg CuAg	97 91	2.0 2.5	FEP	br / br	3.0
K 03252 D	U9 / 10	2	2.5	C4 g	C5 g	6.20	CuAg	Draht/wire	0.95	FEP	2.95	CuAg CuAg	95 93	3.6 4.2	FEP	sw / bk	4.95
K 03252 D-03	U9 / 10	1	1.7	C4 f	C5 f	6.40	CuAg	Draht/wire	0.95	PTFE	2.95	CuAg CuAg	96 94	3.6 4.2	FEP	gr / gr	4.95
RG 142 B/U	U9 / 10	2	2.5	C4 f	C5 f	6.40	StCuAg	Draht/wire	0.95	PTFE	2.95	CuAg CuAg	97 94	3.6 4.2	FEP	br / br	4.95
RG 400 /U	U9 / 10	2	1.7	C4 e	C5 e	1.03	CuAg	Litze/strand	1.00	PTFE	2.95	CuAg CuAg	97 94	3.6 4.2	FEP	br / br	4.95
K 05252 D	*	2	4.6	C4 h	C5 h	12.5	CuAg	Draht/wire	1.50	FEP	4.87	CuAg CuAg	91 92	5.6 6.3	FEP	br / br	7.1
K 07252 D-01	U33	2	4.1	C4 k	C5 k	21.7	CuAg	Litze/strand	2.46	PFA	7.25	CuAg CuAg	95 97	8.0 8.7	FEP	sw / bk	9.25
RG 225 /U	U33	2	5.0	C4 k	C5 k	23.3	CuAg	Litze/strand	2.46	PFA	7.25	CuAg CuAg	95 97	8.0 8.7	GSi	br / br	10.3
RG 393 /U	U33	2	4.1	C4 k	C5 k	23.0	CuAg	Litze/strand	2.46	PFA	7.25	CuAg CuAg	92 94	8.0 8.7	FEP	br / br	9.9

* Stecker auf Anfrage / Connectors on request

Dämpfung / Attenuation

Typische Werte bei 20°C Umgebungstemperatur / Typical values at 20 °C ambient temperature



RG142 @ 1.5 GHz 60 dB/100m

COMPARISON OF INSULATION AND JACKET MATERIALS

	PE	PVC	PUR	PA	Radox	LSOH	PTFE	PFA	FEP	ETFE
Application for	Jacket or dielectric	Jacket	Jacket	Jacket	Jacket	Jacket	Dielectric	Jacket or dielectric	Jacket or dielectric	Jacket or dielectric
<u>Electrical properties</u>										
<i>Dielectric constant at 10⁶ Hz</i>	2.28	—	—	—	—	—	2.1	2.1	2.1	2.6
<i>Dissipation factor at 10⁶ Hz</i>	1.5 x 10 ⁻⁴	—	—	—	—	—	10 ⁻⁴	3 x 10 ⁻⁴	3 x 10 ⁻⁴	5.5 x 10 ⁻³
<i>Volume resistivity Ohm · cm</i>	10 ¹⁶	10 ¹³	10 ¹²	10 ¹³	10 ¹¹ – 10 ¹⁶ 3)	10 ¹⁴	10 ¹⁸	10 ¹⁸	10 ¹⁸	10 ¹⁶
<i>Dielectric strength kV/mm</i>	40	20 – 25	14 – 25	38	30	26	50	70	82	60
<u>Physical properties</u>										
<i>Density kg/m³</i>	930	1200 – 1350	1120	1010	1200 – 1500	1500	2140 – 2180	2150	2140 – 2170	1700
<i>Nominal service temperature °C</i>	70, cross-linked: 100	70 to 105	80	80	125	60	260	260	205	155
<i>Low temperature limit °C</i>	– 40	– 50 to – 15	– 40	– 40	– 30 to – 50	– 40	– 200	– 100	– 100	– 100*
<i>Flammability</i>	readily flammable	flammable (plasticizer)	flammable	flammable	flame retardant	flame retardant	not flammable	not flammable	not flammable	not flammable
<i>Smoke generation</i>	low	high, corrosive gases	high	high	low to medium	medium	low	low	low	low
<i>Solder resistance</i>	medium; crosslinked: good	low	low	medium	high	low	high	high	high	high
<i>Combustibility</i>	keeps burning	extinguishes outside the flame	keeps burning, drops off	keeps burning	self – extinguishing	self – extinguishing	not flammable	not flammable	not flammable	not flammable