



SUHNER® LOW SMOKE, FREE OF HALOGEN COAXIAL CABLES



SUHNER® LSFH COAXIAL CABLES

RF cables, coaxial connectors and assemblies

Customer specific complete solutions, also available in small quantities (extensive assembling)

- Meets upcoming EU environmental regulations
- PVC and leadfree, fire retardant (NFPA) easy disposal
- Low smoke free of halogen in case of fire
- Lowest smoke generation (visibility) IEC 60754-1
- Free of poison, no acidity of gases in the smoke IEC 60754-2
- No continuity of burning after exposure to fire, self extinguishing



Innovative Solutions You Can Count on

under one roof

(working principle)

Halogenfree



The performance of the material is adjustable to customer requirements. Higher fire retardant class for thin wall thickness as usual.

Entire manufacturing technology available for increased temperature requirements (up to 105°) with crosslinking technology.



SUHNER® LSFH COAXIAL CABLES

75 Ohm, up to 1 GHz/2 GHz



SUHNER cable type	Order code	IL dia.	Diel. dia.	Diel. material	Jacket dia.	GHz	Temp.	Based on	Cable group	Remarks
G 04263-01	22511501	0.58	3.64	PE	6.1	1	85°	RG 59	U15, U16	RAL6016 green
G 04263-03	22511867	0.58	3.64	PE	6.1	1	85°	RG 59	U15, U16	RAL9005 black
GX 04263-01	04263-01	0.58	3.64	PEX	6.1	1	105°	RG 59	U15, U16	RAL black
S 03163 B-02	23006095	0.62	2.82	SPE	6.9	2	85°	--	on request	RAL black
S 04263	22511856	0.83	3.70	SPE	6.1	1	85°	--	U15, U17	RAL black
S 05163-02	23003405	1.00	4.57	SPE	6.9	2	85°	--	on request	RAL black

50 Ohm, up to 1 GHz



SUHNER cable type	Order code	IL dia.	Diel. dia.	Diel. material	Jacket dia.	Jacket material	Temp.	Based on	Cable group
GX 01272-01	22511670	0.31	0.92	PEX	2	RADOX	105°	RG 174	U1
G 02262	22510862	0.49	1.5	PE	2.8	LSFH	85°	RG 174	U2
GX 02272	22510833	0.49	1.5	PEX	2.8	RADOX	105°	RG 174	U2
GX 03262	22511645	0.94	2.95	PEX	5.2	LSFH	85°	RG 58, RG 223	U7
GX 03272	22511959	0.94	2.95	PEX	5	RADOX	105°	RG 58, RG 223	U7
G 07262	22511836	2.25	7.28	PE	10.3	LSFH	85°	RG 213, RG 165	U28, U29
GX 07272	22510708	2.25	7.28	PEX	10.3	RADOX	105°	--	U28, U29
S 02162	22511862	0.94	2.3	SPE	4.5	LSFH	85°	--	on request

G = polyethylene dielectric

GX = crosslinked polyethylene dielectric

S = foamed polyethylene dielectric

SX = crosslinked foamed polyethylene dielectric

LSFH = low smoke free of halogen (modified PE-material)

RADOX® = HUBER+SUHNER Trade Mark for optimized and crosslinked LSFH material



IEC 332-1



IEC 332-1

SUHNER® LSFH COAXIAL CABLES

50 Ohm, double screened, 6 GHz



SUHNER cable type	Order code	IL dia.	Diel. dia.	Diel. material	Jacket dia.	GHz	Based on	Cable group	Remarks
G 02262 BD	22512069	0.49	1.5	PE	3.1	6	RG 174	on request	
G 03262 D	22511812	0.88	2.95	PE	5.4	6	RD 58	U9, U10	Wire inner conductor
G 03262 D-01	22511782	0.89	2.95	PE	5.4	6	RD 58	U9, U10	Flex stranded inner cond.
G 07262 D	22512085	2.25	7.28	PE	10.8	6	RG214	U32, U33	
GX 03262 D-01	22511932	0.88	2.95	PEX	5.6	6	RD 58	U9, U10	Higher power capability
GX 07262 D-01	22511647	2.25	7.25	PEX	11	6	RG214	U32, U33	Higher power capability
S 02162 B	22512310	0.8	2.1	SPE	3.2	6	--	on request	
S 04262 D	22511966	1.4	3.78	SPE	5.7	6	--	S16	
S 04262 D-60UL	23007000	1.4	3.78	SPE	5.7	6	--	S16	UL style 1375 appr.
S 06162 D-02	22511923	2.05	5.6	SPE	7.9	6	--	S24	
S 06162 B-02	23007001	2.14	6.15	SPE	8.4	6	--	on request	
S 07262 BD	22511767	2.82	7.35	SPE	10.8	3	--	S32	
S 07262 BD-02	22512130	2.82	7.35	SPE	10.8	3	--	S32	RAL 1021 yellow
SX 07262 BD	22511765	2.82	7.35	SPEX	10.8	3	--	S32	Higher power capability

D = double braided

B = foil screen (banded)

BD = foil screen and double braid

UL version = Underwriters Laboratories approved



IEC 332-2



IEC 332-1

SUHNER® LSFH COAXIAL CABLES

ENVIROFLEX™ cable family



SUHNER cable type	Order code	IL dia.	Diel. dia.	Jacket dia.	GHz	Based on	Cable group	Remarks
EF 178	23010656	0.30	0.83	1.84	3	RG 178 B/U	U1	
EF 178D	23030426	0.30	0.83	2.54	3	RD 178	on request	
EF 179	23019104	0.30	1.55	2.54	1	RG 178 B/U	U5	75 Ohm
EF 316	23009565	0.53	1.55	2.50	3	RG 316/U, K02252D	U2	
EF 316D	22512181	0.54	1.55	3.10	6	RD 316	U4	
EF 142	22512168	0.95	2.95	4.95	6	RG 142 B/U	U9, U10	
EF 400	22512280	1.00	3.00	5.10	6	RG 400/U	U10, U11	
EF 393	22512282	2.46	7.30	10.0	6	RG 393/U	U33	

Selection of suitable connectors for LSFH coaxial cables

Cable group	SUHNER type	Order code	SUHNER type	Order code	SUHNER type	Order code
U1	11 TNC-50-1-6/133 NE	22641660	16 SMB-50-1-40/111 NE	22648053	11 MCX-50-1-13/133 NH	22658307
U2	16 QMA-50-2-2/133 NE	23017657	11 TNC-50-2-112/133NE	23001710	16 TNC-50-2-119/133 NE	23010087
U5	11 TNC-75-2-1c/133 NE	22640693	--	--	--	--
U7	16 QMA-50-3-2/133 NE	23017691	16 N-50-3-26/133 NE	22642846	11 TNC-50-3-116/133 NE	23001714
U9	16 QMA-50-3-1/133 NE	23017686	16 N-50-3-27 /133 NE	22642847	11 TNC-50-3-115/133 NE	23001712
U11	16 SMA-50-3-146c/133	22649909	11 TNC-50-117/133 NE	23010015	11 N-50-3-31/133 NE	22648829
U16	11 N-75-4-8/133 NE	22542477	11 TNC-75-4-4/133 NE	22543478	--	--
U17	11 TNC-75-4-30/133NE	22642503	--	--	--	--
U29	16 N-50-7-30/133 NE	22642848	11 716-50-7-1/003 -E	22544073	11 N-50-7-43/133 NE	22652844
U32	16 N-50-7-31/133 NE	22642849	11 TNC-50-7-10/133 NH	22660104	11 N-50-7-44/133 NE	22642845
U33	11 TNC-50-7-2/133 NE	22640466	11 N-50-7-61/133 NE	22651793	--	--
S16	16 QMA-50-4-1/133NH	23012849	16 N-50-4-14 /133 NE	23015067	16 TNC-50-4-115/133 NE	23001718
S24	16 N-50-6-11/133 NE	23000187	11 TNC-50-6-3/133 NE	22658751	--	--
S32	16 N-50-7-22/133 NE	22651794	16 716-50-7-11/003 -E	22649421	--	--



IEC 332-2



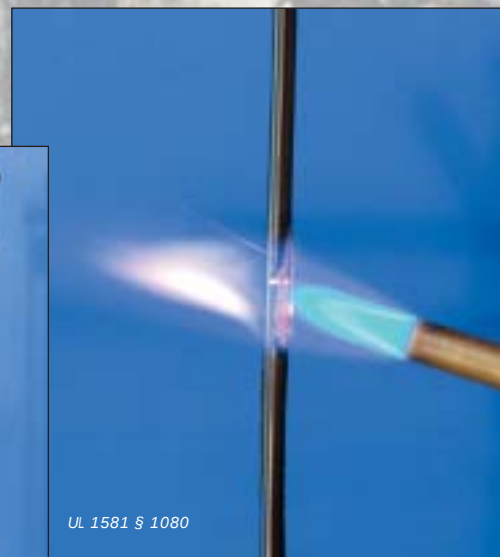
IEC 332-2

S 02162 on request
 S 02162 B 11 or 16 SMB-50-2-24
 S 06162 B-02 on request
 S 03163 B-02 on request
 S 05163-02 on request

SUHNER® LSFH COAXIAL CABLES

Flame retardant

G 02262 BD	22512069	UL 1581 Section 1100	I	3 to 7 mm dielectric diameter
S 02162 B	22511862	UL 1581 Section 1100	I	
G 03262 D	22511812	IEC 60332-1(IEC 60332-2)	II	
S 04262 D	22511966	IEC 60332-1(IEC 60332-2)	II	
			II	
G 04263-03	22511867	IEC 60332-1(IEC 60332-2)	II	
S 05163-01	23001149	IEC 60332-1(IEC 60332-2)	II	
			II	
GX 03262	22511645	IEC 60332-1(IEC 60332-2)	II	
S 07262 BD	22511767	IEC 60332-1(IEC 60332-2)	II	
EF 393	22512282	UL 1581 Section 1080 (VW-1)	III	



HUBER+SUHNER INTERCONNECT DIVISION: A BROAD RANGE OF OUTSTANDING PRODUCTS



The HUBER+SUHNER "Microwave Cables and Assemblies" Catalogue presents the entire range of microwave cables - including matching connectors - combined in a single catalogue. It covers everything from the form-stable SEMI RIGID to the highly flexible SUCOFLEX cables, including the matching cable connectors for application frequencies up to 50 GHz.



QN - The QuickLock N-Connector: Snap-on in one step

- Cycle time improvement for making RF connections (10 times faster to mount)
- No torque required
- Higher packing density
- Free-rotating connection when mated
- Eliminates loosening problems associated with threaded connectors

SUHNER® QN - the cost effective solution for advanced RF interconnections



High performance and stability distinguish our broad range (test cables, test leads, adaptors, attenuators, terminations, MCX and MMCX test kits) of test+measurement products.

These characteristics have been achieved through selective development efforts and a rigorous, TQM guided, manufacturing and testing process.

**The HUBER+SUHNER is certified
according to ISO 9001 and ISO 14001.**

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