



LOW SMOKE, FREE OF HALOGEN COAXIAL CABLES

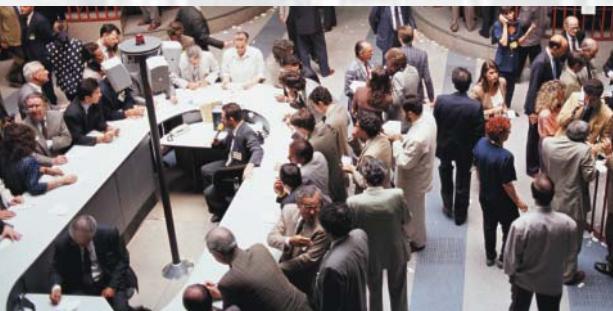
Edition 2006



LSFH COAXIAL CABLES

RF cables, coaxial connectors and assemblies

HUBER+SUHNER offers customer specific complete solutions, in small quantities also (extensive assembling principle)



- 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 distinguishing

Halogenfree



lies under one roof

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.



75 Ohm, up to 1 GHz/2 GHz



Cable type	Item no.	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 °C	RG_59	U15, U16	RAL6016 green
G_04263-03	22511867	0.58	3.64	PE	6.1	1	85 °C	RG_59	U15, U16	RAL9005 black
GX_04263-01	22511646	0.58	3.64	PEX	6.1	1	105 °C	RG_59	U15, U16	RAL black
S_03163 B-02	23006095	0.62	2.82	SPE	6.9	2	85 °C	–	on request	RAL black
S_04263	22511856	0.83	3.70	SPE	6.1	1	85 °C	–	U15, U17	RAL black
S_05163-02	23003405	1.00	4.57	SPE	6.9	2	85 °C	–	on request	RAL black

50 Ohm, up to 1 GHz



Cable type	Item no.	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 °C	RG_174	U1
G_02262	22510862	0.49	1.5	PE	2.8	LSFH	85 °C	RG_174	U2
GX_02272	22510833	0.49	1.5	PEX	2.8	RADOX	105 °C	RG 174	U2
GX_03262	22511645	0.94	2.95	PEX	5.2	LSFH	85 °C	RG_58, RG_223	U7
GX_03272	22511959	0.94	2.95	PEX	5	RADOX	105 °C	RG_58, RG_223	U7
G_07262	22511836	2.25	7.28	PE	10.3	LSFH	85 °C	RG_213, RG_165	U28, U29
GX_07272	22510708	2.25	7.28	PEX	10.3	RADOX	105 °C	–	U28, U29
S_02162	22511862	0.94	2.3	SPE	4.5	LSFH	85 °C	–	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

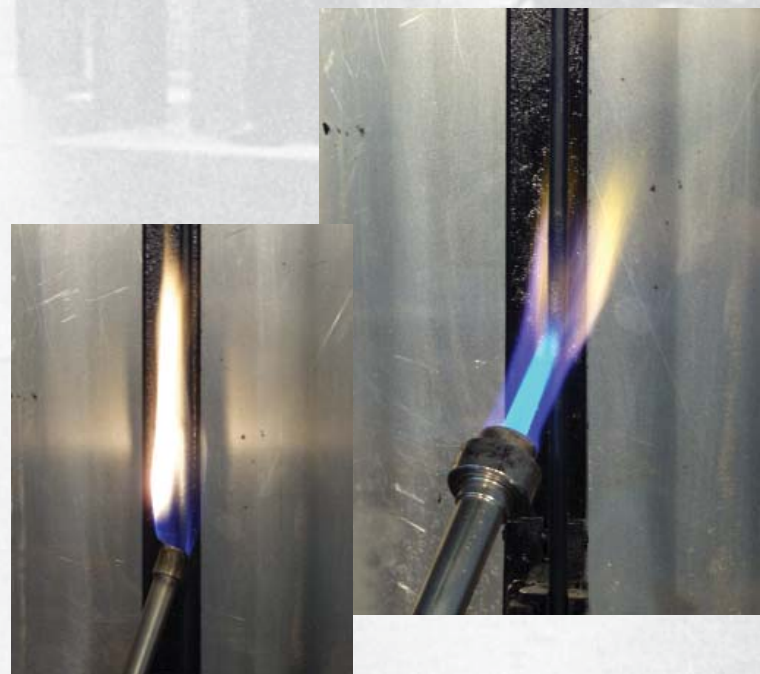


50 Ohm, double screened, 6 GHz



Cable type	Item no.	IL dia.	Diel. dia.	Diel. mat.	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	RG_58	U9, U10	wire inner conductor
G_03262_D-01	22511782	0.89	2.95	PE	5.4	6	RG_58	U9, U10	flex stranded inner cond.
G_07262_D	22512085	2.25	7.28	PE	10.8	6	RG_214	U32, U33	
GX_03262_D-01	22511932	0.88	2.95	PEX	5.6	6	RG_58	U9, U10	higher power capability
GX_07262_D-01	22511647	2.25	7.25	PEX	11	6	RG_214	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



ENVIROFLEX® cable family



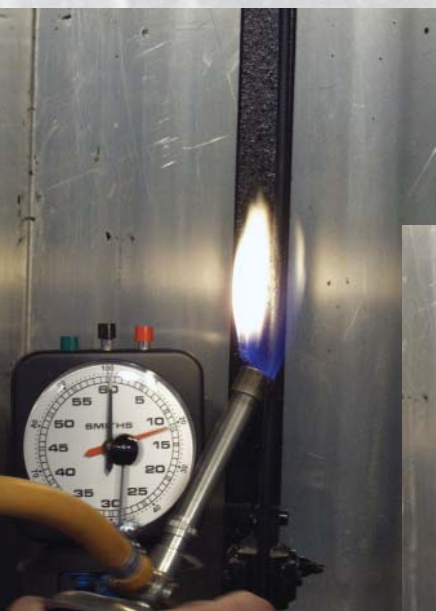
cable type	Item no.	IL dia.	Diel. dia.	Jacket dia.	GHz	Based on	Cable group	Remarks
ENVIROFLEX_178	23010656	0.30	0.83	1.84	3	RG_178_B/U	U1	
ENVIROFLEX_178D	23030426	0.30	0.83	2.54	3	RD_178	on request	
ENVIROFLEX_179	23019104	0.30	1.55	2.54	1	RG_178 B/U	U5	75 Ohm
ENVIROFLEX_316	23009565	0.53	1.55	2.50	3	RG_316/U, K_02252_D	U2	
ENVIROFLEX_316D	22512181	0.54	1.55	3.10	6	RG_316	U4	
ENVIROFLEX_142	22512168	0.95	2.95	4.95	6	RG_142_B/U	U9, U10	
ENVIROFLEX_400	22512280	1.00	3.00	5.10	6	RG_400/U	U10, U11	
ENVIROFLEX_393	22512282	2.46	7.30	10.0	6	RG_393/U	U33	

Selection of suitable connectors for LSFH coaxial cables

Cable group	Connector type	Item no.	Connector type	Item no.	Connector type	Item no.
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-50-2-112/133_NE	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-75-4-30/133_NE	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-50-4-1/133_NH	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	-	-

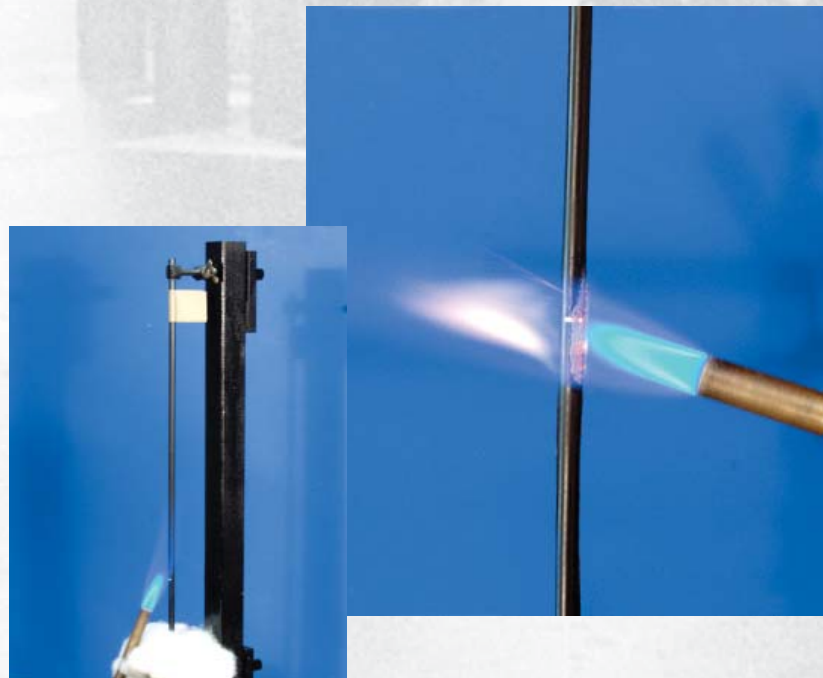
S_02162
S_02162_B
S_06162_B-02
S_03163_B-02
S_05163-02

on request
11 or 16_SMB-50-2-24
on request
on request
on request



Flame retardant

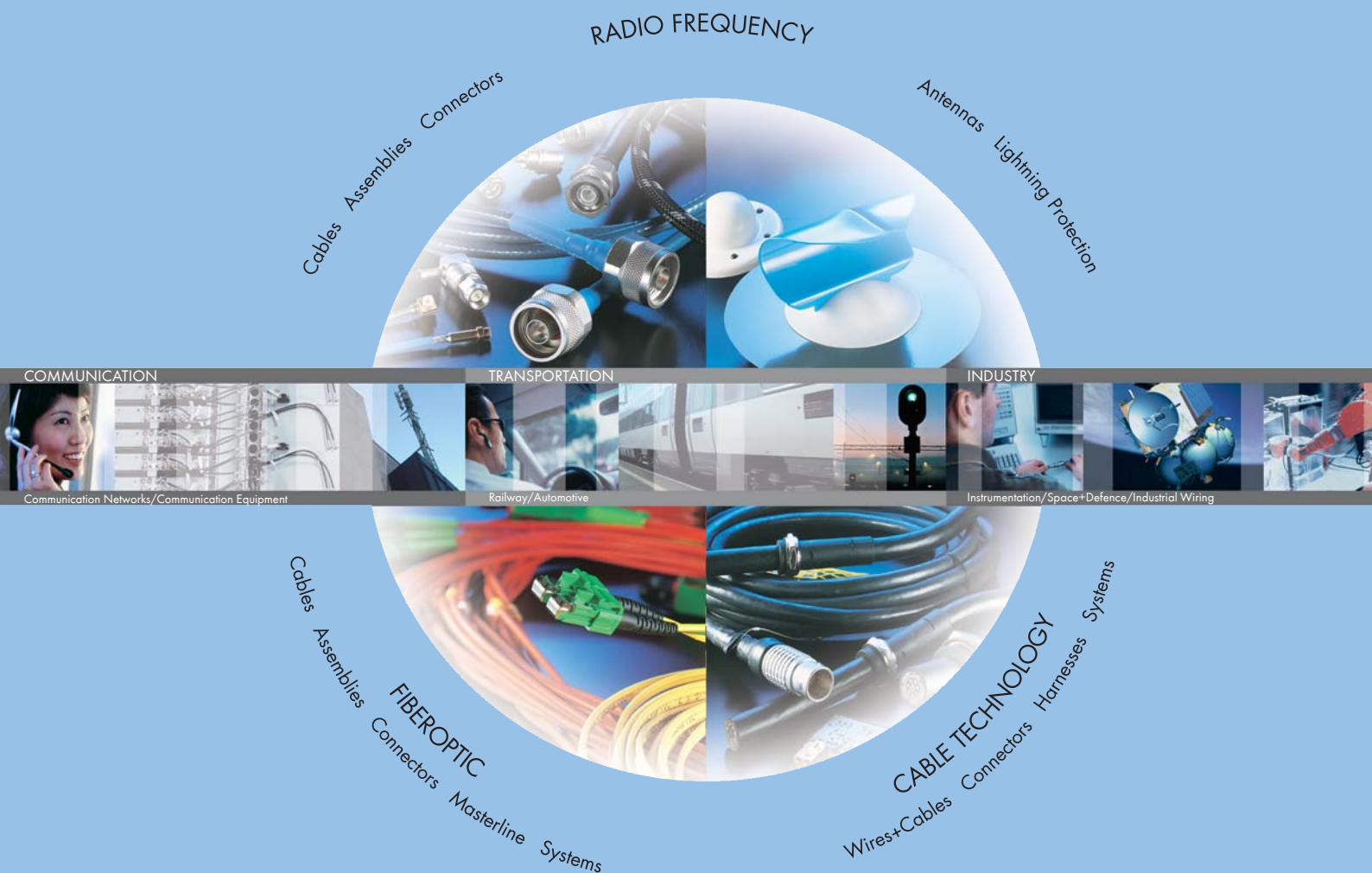
G_02262_BD	22512069	UL 1581 Section 1100	I	
S_02162_B	22511862	UL 1581 Section 1100	I	
G_03262_D	22511812	IEC 60332-1 (IEC 60332-2)	II	
S_04262_D	22511966	IEC 60332-1 (IEC 60332-2)	II	
G_04263-03	22511867	IEC 60332-1 (IEC 60332-2)	II	
S_05163-01	23001149	IEC 60332-1 (IEC 60332-2)	II	
GX_03262	22511645	IEC 60332-1 (IEC 60332-2)	II	
S_07262_BD	22511767	IEC 60332-1 (IEC 60332-2)	II	
ENVIROFLEX_393	22512282	UL 1581 Section 1080 (VW-1)		III



HUBER+SUHNER – Excellence in Connectivity Solutions

HUBER+SUHNER is a leading global supplier of components and systems for electrical and optical connectivity in communications, industrial and transportation markets. HUBER+SUHNER can draw on core competences in the

areas of high frequency technology, fibre optics, cables and polymers. Working in close collaboration with our customers around the globe, we strive for excellence in the development and manufacturing of high quality products.



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

WAIVER

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