Reliant EMC	Schwarzbeck Mess-Elektronik
	Antenna Holders / baluns
VHA 9103 B	Holder / Balun without telescopic dipole elements (for use with Biconical BBA 9106, BBAL 9136, BBAK 9137, BBVK 9138)
HFBA 9122	HF-VHF Broadband balun / holder (0.1) 0.15 - 300 (500) MHz especially to measure very high field strength. BBAL 9136, BBA 9106, BBAK 9137, BBVU 9135 or BBUK 9139 biconical elements required.
VHBA 9123	Antenna Holder / Balun for Bicon. Broad Band Antenna (e.g. BBA), 50 / 200 □, (better antenna factor below 50 MHz, also EMV application 100 W
VHBB 9124	Antenna holder / balun 50:200 Ohm , high symmetry, 25-300 MHz, 10 W for BBA, BBAL, BBAK, BBVK
VHBC 9133	Antenna holder / balun 50:200 Ohm, 1 kW, for biconical or collapsible elements (BBA, BBAL, BBFA, Triangle, FBAA, FBAB)
VHBD 9134	High power antenna holder / balun 50:200, 2.5 kW, 20-200 MHz for biconical or collapsible elements BBFA 9146, N-connector
Opt. 7/16	Option: 7/16 connector
VHBD 9134-4	4 kW high power antenna holder / balun 50:200 □, 20-200 MHz for BBAL 9136 or BBFA 9146, 7/16-female connector.
UBAA 9114	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, low loss, BBVU, BBUK, BAOC or BBOC elem. required
UBAA 9115	Broadband Balun/Holder 4:1, 30-1000 MHz, 5 W, extremely high symmetry, BBVU, BBUK, BAOC or BBOC elem. required
	Biconical elements
BBA 9106	Biconical Elements, 30-300 MHz, requires VHA 9103 B, VHBC, VHBB or VHBA
BBAL 9136	Biconical Elements, 20-200 MHz, requires VHA 9103 B, VHBC, VHBB or VHBA
BBAK 9137	Biconical Elements, 45-450 MHz broad band, requires VHA 9103, VHBB or VHBA
BBVK 9138	Biconical Elements, 60-600 MHz broad band, requires VHA 9103, VHBB or VHBA
BBVU 9135	Biconical Elements, (30)100-1000 MHz (like VUBA), for UBAA 9114/9115
BBUK 9139	Biconical Elements, 160-1200 MHz broad band (like UBA), for UBAA 9114/9115
	Collapsible or open Biconical Elements
BBAE 9179	Foldable elements for immunity for automotive applications, optimized for 1 m measurement distance, max. diameter 150 cm, 20-220 MHz suitable for: VHBC 9133, VHBD 9134, VHBD 9134-4. Some Baluns may need a mechanical modification!
Holder Short	Plastic holders to be fixed at a high power balun e.g. VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. BBAE 9179 elements have 2 pins. The HOLDER SHORT accept the second pin and absorb the torque caused by BBAE 9179 in horizontal Polarisation.
Holder Long	Plastic holders to be fixed at a high power balun e.g. VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. The HOLDER LONG must be assembled to the balun to use BBAE 9179 with booster coils.
BBFA 9146	Large collapsible aluminum Elements with extensions up to 4 m
FBAB 9177	Collapsible Biconical Elements 30 – 300 MHz (instead of BBA)
FBAL 9178	Large Collapsible Biconical Elements 20 – 200 MHz (instead of BBAL)
BAOC 9216	Open Conical Elements, 160-1200 MHz broad band, for UBAA 9114/9115
BBOC 9217	Open Conical Elements, (30)100-1000 MHz broad band, for UBAA 9114/9115
BCO1 9180 4W	Set of plugable coils with 10 mm element fixtures and 10 mm shafts. A pair of coils is added between the high power balun and the antenna element. Suitable for the following baluns: VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. Suitable for the following elements: BBA 9106, BBAL 9136, BBFA 9146, BBAE 9179 and others. The booster coils have 4 turns and increase the gain of the biconical antenna in the lower frequency range remarakably. If the coils are used with BBAE 9179 the balun must be equipped in our factory with an additional torque absorbing plastic fixation bar (holder long)
BCO1 9180 5W	Set of plugable coils with 10 mm element fixtures and 10 mm shafts. A pair of coils is added between the high power balun and the antenna element. Suitable for the following baluns: VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. Suitable for the following elements: BBA 9106, BBAL 9136, BBFA 9146, BBAE 9179 and others. The booster coils have 5 turns and increase the gain of the biconical antenna in the lower frequency range remarakably. If the coils are used with BBAE 9179 the balun must be equipped with additional torque absorbing plastic fixation bar (holder long)

	Logarithmic Periodic Broadband Antennas
UHALP 9108 A	Log.-Periodic Antenna, alum. Tubing, 250 – 2400 MHz, low loss, 1 kW power
VUSLP 9111-1000	Log.-Per. Antenna, aluminum tubing, 1000 – 3000 (4000) MHz, low loss, 1 kW.
VUSLP 9111-400	Log.-Periodic Antenna, alum. Tubing, 400 - 3000 (4000) MHz, low loss, 1 kW .
VUSLP 9111	Log.-Periodic Antenna, alum. Tubing, 200 – 2300 (4000) MHz, low loss, 1 kW power
VUSLP 9111B	Log.-Periodic Antenna, alum. Tubing, (180) 200 - 3000 (4000) MHz, low loss, 1 kW power
VUSLP 9111E	Log.-Per. Antenna, aluminum tubing, 1 kW power, 70 (65)-3000 (4000) MHz. Recommended adapter: KG 9201. EN 61000-4-3
VULP 9118 A	Log.-Per. Antenna, aluminum tubing, 1 kW power, 180 -1500 (2000) MHz
VULP 9118 B	Log.-Per. Antenna, aluminum tubing, 1 kW power, 160-1500 (2000) MHz
VULP 9118 C	Log.-Per. Antenna, aluminum tubing, 1 kW power, 100-1400 (2000) MHz
VULP 9118 D	Log.-Per. Antenna, aluminum tubing, 1 kW power, (80) 95 -1500 (1800) MHz
VULP 9118 E	Log.-Per. Antenna, aluminum tubing, 1 kW power, 75 (50)-1500 MHz.
VULP 9118 E High Power	Log.-Per. Antenna, aluminum tubing, high power, 7/16-connector, 75 (50)-1500 MHz.
VULP 9118 F	Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 55 -1800 MHz
VULP 9118 G	Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 45 -1500 MHz
VULP 9118 D/E/F/G Special	Nearly identical gain as VULP 9118 D/E/F/G but with reduced width. Extra charge added to the basic model. Special = folded longest elements
VULP 9118 H	Log.-Per. Antenna, aluminum tubing, 1 kW power, (26) 30 - 1500 (1800) MHz, N- connector gain 6 dBi, VSWR<3, width 5.2 m, length 4.8 m, weight 35 kg.
Opt. WP	Option: grey coating and sealing for outdoor use
USLP 9142	UHF – SHF Log. – Per. Antenna, 0.7 – 5 (8) GHz
USLP 9143	UHF – SHF Log. – Per. Antenna, (0.25) 0.3 – 7 (8) GHz
USLP 9143 B	UHF – SHF Log. – Per. Antenna, (0.18) 0.2 – 7 (8) GHz
ESLP 9145	UHF – EHF Log. – Per. Antenna, (0.7) 1- 18 (20) GHz, N-connector
XSLP 9142	Dual Polarized UHF-SHF Log.-Per. Antenna, 800 MHz – 3(5) GHz, 50 W
XSLP 9143	Dual Polarized UHF-SHF Log.-Per. Antenna, 300 MHz – 3(5.5) GHz, 50 W
	Stacked Logarithmic Periodic Broadband Antennas
STLP 9128 C	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, (150) 200 - 1500 (4000) MHz, N-connector 1 kW
Opt. 7/16	Option: with 7/16-connector 3 kW
Opt. 13-30	Option: with 13-30-connector limited to 2500 MHz but higher power up to 8 kW including adapter similar to AA 9202
STLP 9128 D	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, 80 -3000 (4000) MHz, N-connector, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9128 D Special	Like STLP 9128 D but with folded longest elements and smaller structure angle, fastlinks. Antenna diameter < 150 cm. Recommended Adapter: AA 9209
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9128 E	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, alum. Tubing, high power, (65) 80 -1500 (3000) MHz, N-connector 1 kW, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9128 E Special	Like STLP 9128 E but with folded longest elements and smaller structure angle. Antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209
Opt. 7/16	Option: with 7/16-connector 3 kW
STLP 9148	Stacked double Log.-Per. Antenna, typ. gain: 9 dBi (0.7) 1 – 18 (20) GHz, N- connector
STLP 9149	Stacked double Log.-Per. Antenna for IEC 61000-4-3 typ. gain 10.3 dBi, (0,6) 0,7 – 9 (10,5) GHz, N-connector female.
STLP 100-500	Stacked double Log.-Per. Antenna, typ. Gain: 11 dBi, alum. Tubing, high power, (75) 100 – 500 (550) MHz, 13/30 (f)-connector 5 kW, dimensions: 166x178x402 cm, 52 kg

	Biconic Logarithmic Periodic Antennas (Hybrid)
VULB 9160	TRILOG Super Broadband test Antenna, (25) 30 – 1000 (1700) MHz, 10 W
VULB 9161	TRILOG Super Broadband test Antenna, 30 – 1000 (2000) MHz, 1 kW
VULB 9161 SE	TRILOG Super Broadband test Antenna, 30 – 1000 (2000) MHz, 1 kW with short Triangle elements, diameter < 150 cm
VULB 9162	TRILOG Broadband Antenna 30 MHz - 7 GHz, 100 W, diameter < 150 cm
VULB 9163	TRILOG Super Broadband test Antenna, (25) 30 – 3000 (4000) MHz, 100 W (200 W)
VULB 9168	TRILOG Super Broadb. Test Antenna, (25) 30-1000 (2000) MHz, 10 W, reduced width, diameter < 1.5 m.
Opt. Triext.	Option for VULB 9163, VULB 9161, VULB 9161 SE: angled Triangle Extensions to increase the gain by typ. 6 dB below 70 MHz.
	Biconical Antennas
SBA 9113 B	Small Biconical Antenna 80 MHz – 3 GHz for harmonics measurements acc. To IEC61000-4-3
SBA 9113	Small biconical microwave antenna 0.5 – 3 GHz, 20 W. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1 GHz
Elements of SBA 9113	Only the biconical elements which are included in any delivery of SBA 9113.
SBA 9112	Small biconical microwave antenna (1) 3 – 18 GHz, 10 W including transport case. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1 GHz
SBA 9119	Small biconical microwave antenna 1 – 6 GHz, 20 W. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1 GHz including transport case.
UBA 9116	Biconical UHF broad band antenna (160) 300 -1000 (1100) MHz
VUBA 9117	Biconical VHF-UHF broad band antenna (30) 150 -1000 MHz
	Dipoles
VHA 9103	VHF Half-Wave Dipole with 2 sets of telescopic elements, 30-300 MHz
UHA 9105	Tuneable UHF – Half – Wave Dipole, 300 – 1000 MHz w. telescopic elements
UHA 9125 C	Tuneable UHF – Half – Wave Dipole with EMI – Balun, 0.75 – 2 GHz with 4 sets of elements, L_E = 180, 140, 100, 80 mm including transport case.
UHA 9125 D	Tuneable UHF – Half – Wave Dipole with EMI – Balun, 1.0 – 3 (4) GHz with 6 sets of elements, L_E = 140, 114, 90, 72, 60, 48 mm, including transport case.
	Precision Dipoles
VHAP	VHF Precision Dipole 30-300 MHz, 2 sets of telescopic elements (mostly required in pairs) CISPR 16-1-5.
UHAP	UHF Precision Dipole 300-1000 MHz (VHAP & UHAP mostly required in pairs) CISPR 16-1-5
CCA	Carrying and storing case for 2 x VHAP or 2 x UHAP, cases for other antennas also available.
VHAPA	Calibration adaptor for VHAP Precision Dipoles
UHAPA	Calibration adaptor for UHAP Precision Dipoles

	Monitoring & drive testing antennas
ILS Dipole	Linear polarized half-wave dipole with 1:1 balun and fixed element length for field strength measurements at instrument landing systems (ILS) 108 - 118 MHz and 320 - 340 MHz.
CCA ILS	Transport and storage case made of aluminum for ILS Dipole
FT 01 S	FM broadcast and TV bands antenna, detachable, 47 – 860 (1000) MHz, high directivity
FT 01 UKW	Additional elements for enhanced FM broadcast directivity
RSH 2342	Omni directional horizontally polarised UHF antenna 170 - 350 MHz.
RSH 4786	Omni directional horizontally polarised UHF antenna (350) 470 - 860 (1050) MHz for outside use.
RS 16	Vertical polarized microwave biconical antenna (0,5) 1 – 6 (8,5) GHz with omni directional H-plane pattern.
RE 1790	Vertical polarized VHF- UHF biconical antenna (170) 230 – 1000 (1100) MHz with omni directional H-plane pattern.
RE 4590	Vertical polarized VHF- UHF biconical antenna (330) 450 – 1000 (1100) MHz with omni directional H-plane pattern.
RS 0460	Vertically polarised symmetrical biconical antenna 0,4 – 6 GHz, Omni directional in the H-plane
CCA RS 0460	Transport case for RS 0460.
	Broadband Horn Antennas
BBHA 9120 A	Broad-Band Horn Antenna (0.8) 1 – 5 (10) GHz, N-connector
BBHA 9120 B	Broad-Band Horn Antenna 1 – 10 GHz, N-connector
BBHA 9120 C	Broad-Band Horn Antenna 2 – 18 (20) GHz, SMA-connector
BBHA 9120 D	Broad-Band Horn Antenna (0,8) 1 – 18 GHz, N-connector
BBHA 9120 E	Broad-Band Horn Antenna 0.5 – 6 GHz, N-connector
BBHA 9120 F	Broad-Band Horn Antenna 0.2 – 2 GHz, N-connector
Opt. 7/16	Option: with 7/16-connector 3 kW
BBHA 9120 F Opt. 1 m	Very short telescopic tube to be inserted into the steel foot of AM 9144 to set BBHA 9120 F to a height of 1 m referring to the antenna center in both polarisations.
BBHA 9120 G	Broad-Band Horn Antenna 0.4 – 2.8 GHz, 7/16-connector
BBHA 9120 LF	Broad-Band Horn Antenna 0.7 – 6 GHz, N-connector
BBHA 9170	Broad-Band Horn Antenna 15 – 26.5 (40) GHz, SMA-compatible connector
HA 9250-24	Pyramidal standard gain horn Antenna, 2 – 4 GHz, 7/16-connector, 20 dBi, optimized for far field gain.
HA 9250-48	Pyramidal standard gain horn Antenna, 4 – 8 GHz, 7/16-connector, 20 dBi, optimized for far field gain.
HA 9251-12	Pyramidal standard gain horn Antenna, 1-2 GHz, 7/16-connector, far field gain 19-22 dBi, optimized for 1 m gain.
HA 9251-24	Pyramidal standard gain horn Antenna, 2 – 4 GHz, 7/16-connector, 18 dBi, optimized for the gain in 1 m distance.
HA 9251-48	Pyramidal standard gain horn Antenna, 4 – 8 GHz, 7/16-connector, 19 dBi, optimized for the gain in 1 m distance.
HWRD750	Double ridged horn antenna 7.5-18 GHz with waveguide flange WRD750. Gain 16-21 dBi, 1 kW, especially to generate very high field strengths.
	Dual polarised horn antennas
CTIA 0710	CTIA horn antenna, dual polarized, 0,7-10 GHz, typ. 30 dB cross polar rejection, antenna with reduced size for OTA measurements. Antenna without 22 mm tube!
Opt. CTIA tube 22 mm	Option for CTIA 0710: 22 mm tube with indexing ring.
BBHX 9120 E	Dual polarized Broad-Band Horn Antenna 0.4 – 10 GHz, N-connectors
BBHX 9120 LF	Dual polarized Broad-Band Horn Antenna (0.8) 1 – 8 (10.5) GHz, N-connectors
	Standard Gain Antennas
SGA…	Standard Gain Antennas, typ. 9.8 dBi gain, 60° pattern, accurately calibrated (2 half-wave dipoles in front of a □ x □ reflector, design frequencies approx. 400-2800 MHz.

	Active Antennas
VAMP 9243	Vertical active rod antenna, 9 kHz - 30 MHz, BNC, reduced noise floor, with mounting nut for AM 9144 and rechargeable battery.
Opt. GP	Option: Aluminium Groundplane, 0.6 x 0.6 m
Opt. ACS 410	Option: Charger ACS 410
Opt. Divider	Option 20 dB plug in divider to measure high field strength
Opt. CA 9243	Calibration Adapter for VAMP 9243
Opt. MIL461F bonding kit	Bonding kit for VAMP 9243 acc. MIL-STD-461F consisting of a BNC cable double shielded ca. 70 cm, with braid current blocking ferrite in the center, elbow aluminum angle with BNC bulkhead adapter.
EFS 9218	Active Electric Field Probe with Biconical Elements, 9 kHz - 300 MHz, 12 µV/m - 65 V/m, antenna factor switchable 46 dB/m or 20 dB/m, high symmetry, built in rechargeable battery
Opt. ACS 410	Option: Automatic charger ACS 410 for EFS 9218
EFS 9219	Active antenna holder, high sensitivity (1 µV/m … 3 V/m), 9 kHz-30 MHz, BBUK 9139 biconical elements required.
Opt. Tube	Option: Isolating tube with braid chokes for EFS 9219
Opt. ACS 410	Option: Automatic charger Ansmann ACS 410 for EFS 9219
	Automotive antennas
NMHA 6M	Nissan and Renault antenna set to test immunity against handy transmitters according to Nissan specification 28401NDS02 [6] and RENAULT 36-00-808/L (combined set) consisting of normal mode helical antennas, counterpoise, SBA 9113 with 420NJ elements and transport case (see extra list)
NMHA 5L	Nissan and Renault antenna set to test immunity against handy transmitters acc. to Nissan specification 28401NDS02 [5] and RENAULT 36-00-808/L 2010 (combined set) consisting of normal mode helical antennas, dipoles counterpoise and transport case (see extra list)
VW TL 82166 2009-05 Antenna Set	Antenna set acc. to Volkswagen Specification VW TL 82166:2009-05 section 7.3 "antenna set for mobile radio testing using mobile portable radio units inside the vehicle." The set consists of: NMHA 26.5, NMHA 27.5, NMHA 28.5, NMHA 29.5, NMHA 71, NMHA 77, NMHA 83.75, NMHA 151, NMHA 166, SBA 9113 mini version total length of the balun LH=20 cm without the small original biconical elements, 420 NJ, Spacer 50, VW metal case large with short 22 mm tube, VW metal case small with short 22 mm tube, MSS 9630, AD Nm BNCf, AD Nm Nm Case for all parts CCA VW.
420 NJ	Elements for radiated immunity caused by handy transmitters with SBA 9113 or SBA 9113 mini version for the Ford standard RI115.
421 NJ	Elements for radiated immunity caused by handy transmitters with SBA 9113 or SBA 9113 mini version. Downsized elements..
422 NJ	Elements for radiated immunity caused by handy transmitters for SBA 9119.
Opt. Spacer 50	Spacer made of Polystyrene to set the 420 NJ test distance to 50 mm.
WAND0918	Wireless Immunity “Wand” Antenna acc. to Dell Specification „SYSTEM IMMUNITY TO WIRELESS GSM TEST REQUIREMENT” 800 MHz -2 GHz.
RS 9244	Radiating source for CISPR/D/391/CD (CIS/D/386/CD, CIS/D/388A/CC), consisting of a 500 mm brass rod with 4 mm diameter and 2 aluminum angles with N-connectors.
	Passive Rod Antenna
VPMP 9241	Monopole acc. to CISPR/D/391/CD (CIS/D/386/CD, CIS/D/388A/CC), passive, 2 N-connectors, element fixture for rod, rod, aluminum housing and ground plane.
Opt. TLD 9241	Top loading disc for VPMP 9241 diameter < 12 cm.
VPMP 9242	Vertical passive rod antenna, 10 – 40 MHz, possible rods: FBAB 9177, FBAL 9178, BBA 9106, BBAL 9136 (have to be ordered extra)
Opt. GP	Option: Aluminum ground plane 0.6 x 0.6 m
	Helical antennas
HLX 0810- LHCP	Helical antenna 800 - 1000 MHz, left circular polarisation, gain 11 dBc, 22 mm tube, N-jack.
HLX 0810- RHCP	Helical antenna 800 - 1000 MHz, right circular polarisation, gain 11 dBc, 22 mm tube, N-jack.
CLSA 0110L	Conical Log Spiral Antenna 1-10 GHz, typ. gain 2 dBi, N-connector, left threaded.
CLSA 0110R	Conical Log Spiral Antenna 1-10 GHz, typ. gain 2 dBi, N-connector, right threaded.

	Passive Magnetic Antennas, TX-Loop Antennas
HFRA 5148	Circular transmitting loop antenna diam. 180 mm, 1 turn
HFRA 5149	Circular transmitting loop antenna 9 kHz – 30 MHz, diam. 500 mm including 50 Ohm 20 Watt termination, N-connectors.
HFRA 5152	Circular transmitting loop antenna diam. 250 mm, DC-3 MHz
HFRA 5153	Circular transmitting loop antenna diam. 180 mm, 0-20 (30) MHz, 5 W
HFRA 5154	Circular transmitting loop antenna diam. 100 mm, 0.1 – 30 MHz, Transformer 50 Ohm, 0.5 W
HFRA 5155	Circular Transmitting VHF – UHF loop antenna, diam. 50 mm,
HFRA 5156	Circular Transmitting Loop Antenna diam. 50 mm, 0-5 MHz, 2 W, 10 turns
HFRA 5157	Circular Transmitting Loop Antenna diam. 50 mm, 0-20(30) MHz, 3 W, 2 turns
HFRA 5158	Circular Transmitting Loop Antenna diam. 180 mm, 0-2 MHz, 5 W, 10 turns
HFRA 5159	Circular Transmitting Loop Antenna diam. 250 mm, 0-400 kHz, 5 W
HFRA 5170	Cal. Loop 3 W, diam. 100 mm, 0-30 MHz, 1 turn, 250 Ohm
HFRA SF02G	Tuneable resonant magnetic loop antenna to generate extremely high magnetic fields in the range 10 kHz to 30 MHz acc. to VG95373-13:2008-11 and VG95373-23:2008-11. Including sensor loop HFRAE 5163 und control cable.
	Passive Magnetic Antennas, RX-Loop Antennas
HFRAE 5160	Receiving VHF – UHF loop antenna, diam. 50 mm, 2-300 MHz, transformer
HFRAE 5161	HF RX Loop, diam. 100 mm, 70 k-120 MHz, 1 turn, transformer
HFRAE 5162	VLF-HF RX Loop, diam. 250 mm, 50 k-30 MHz, 1 turn, transformer
HFRAE 5163	Passive magnetic loop antenna 9 kHz – 300 MHz, 1 turn, transformer, diam. 50 mm
	CISPR 15 3-dimensional loop antenna van Veen
HXYZ 9170	3-dimensional large loop antenna, diam. 2 m, acc. EN 55015 / CISPR 15, Socket and Coaxial switch recommended
Socket for HXYZ 9170	Socket and mounting equipment for large loop HXYZ 9170
Coaxial Switch for HXYZ 9170	3 in one coaxial switch for manual / remote operation including cable set (3 BNC cables with braid current blockers) for large loop HXYZ 9170
HFCD 9171	Calibration Balun / Dipole for HXYZ 9170 (recommended accessory: AM 9144)
CDA 9271	Adapter to hold HFCD 9171 on AM 9144, 3/8'' female large camera thread.
	Active Loop Antennas / Magnetic Field Probes
FMZB 1513	Active loop antenna, 9 kHz to 30 MHz, constant antenna factor 20 dB/m with built in NiMH-batteries, detachable glass fiber handle 180 mm. Optimized for mobility.
Opt. ACS 110	Option: Charger ACS 110 for FMZB 1513.
Opt. 500 mm Handle	Option for FMZB 1513: Additional glass fiber handle of 500 mm length.
CCA 1513	Transport case for FMZB 1513 and accessories.
FMZB 1519	Active magnetic loop antenna acc. to CISPR 16, 9 kHz to 30 MHz, constant antenna factor 20 dB/m, built in rechargeable battery, including charger for 230V
HMDA 1545	Handheld magnetic field meter, LCD, acoustic field strength indication with tone generator, 9 kHz- 50 (80) MHz, 200µA/m … 1 A/m, 6 x Type AA NiMH.
Opt. ACS 410	Option: ACS 410 charger for HMDA 1545
HFS 1546	Active magnetic Field Probe with shielded 50-mm-Loop, 150 kHz – 400 MHz
Opt. ACS 110	Option: ACS 110 charger for HFS 1546
FMZB 1512	Active magnetic loop antenna with 15 cm loop diameter for mobile applications with built in rechargeable batteries, 9 kHz to 30 MHz, antenna factor adjustable.
Opt. ACS 110	Option: ACS 110 charger for FMZB 1512

	Helmholtz coils, electro magnets
MagTest System	Schwarzbeck-Software to test Immunity against magnetic fields and to calibrate monitoring loops. Fulfills standards like MIL-461 E, ISO 11452-8, EN 61000-4-8, SAE J551-17 and others. Control of all required devices via GPIB.
SHUNT 9570	Low inductive precision high power shunt 0.25 and 1 Ohm 2 kW or 0.5 Ohm 1 kW respectively for best load matching at lower frequency end, cooling fans.
HHS 5201-6	Helmholtz Coils circular up to 2860 A/m 5 MHz for DuT size 45 mm.
HHS 5201-98	Helmholtz Coils circular up to 64 kA/m 200 kHz for DuT size 45 mm.
HHS 5203-20	Helmholtz Coils, circular, diam. 300 mm, 330 A/m for Calibration or Immunity
HHS 5204	Helmholtz Coils for Calibration purposes, circular, diam. 420 mm, 5 turns f. 60 A/m
HHS 5204-12	Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 500 kHz MIL-STD 461E
HHS 5204-36	Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 150 kHz MIL-STD 461E
HHS 5206-16	Circular pair of Helmholtz coils, diameter 600 mm, up to 2100 A/m, max. current 55 A.
HHS 5210	Helmholtz Coils up to 300 A/m constant H field, 1 m x 1 m, 10 turns per coil, EN 61000-4-8, VDE 0847 part 4-8
HHS 5210-100	Helmholtz Coils up to 2183 A/m constant H field, 1 m x 1 m, 100 turns per coil, EN 61000-4-8, VDE 0847 part 4-8
HHS 5212	Helmholtz Coils up to 250 A/m H field, 1.20m x 1.20 m, 10 turns.
HHS 5213-50	Helmholtz Coils 1.25 m x 1.25 m, 50 turns per coil, acc. EN 55103-2 A.2.1.b)
HHS 5213-100	Helmholtz Coils 1.29 m x 1.29 m, 100 turns per coil.
HHS 5215	Helmholtz Coils up to 200 A/m constant H field, 1,5 m x 1,5 m, 10 turns per coil
HHS 5215-100	Helmholtz Coils up to 2000 A/m constant H field, 1,5 m x 1,5 m, 100 turns per coil
HHS 5218	Helmholtz Coils up to 126 A/m constant H field, 1,8 m x 1,8 m, 10 turns per coil
HHS 5230-100	Pair of Helmholtz coils according to SAE J551-17: 2 square coils with a side length of 3 m, 100 turns, max. 650 A/m, each coil movable separately on a wheeled platform.
NFCN 9731-100	Matching network for HHS 5230-100 for the following frequencies: 16,666 Hz; 50 Hz; 60 Hz; 150 Hz; 180 Hz. Recommended amplifiers: 2 units of AE Techron 7224.
AGEM 5520	Air gap electromagnet for extreme high magnetic field strengths of up to 2.2 Tesla.
FESP 5132	Radiating loop diam. 12 cm, 20 turns, DC to 250 kHz, max 15 A, 2x Banana jack 4mm, ISO 11452-8, MIL-STD 461E p. 108, EN 55103 5.18.3.2
Opt. LoopHolder50	Calibration fixture to hold FESP 5134-40 in FESP 5132 in a distance of 50 mm acc. MIL461E figure RS101-3.
FESP 5134-40	Loop Sensor / Antenna, diam. 4 cm, 51 turns, 5 Hz to 250 kHz, electrostatic shielding, BNC jack
FESP 5133	Loop Sensor / Antenna, 36 turns in 4 layers, diam. 133 mm, EN 55103-1 A.2.b), EN 55103-2 A.4.1 0 – 200 kHz, banana plugs (standard) or BNC connector female.
FESP 5133-7/41	Circular shielded loop sensor to determine the magnetic field strength 5 Hz – 250 kHz. 36 turns AWG 7/41, diameter 133 mm, distance gauge 7 cm included. MIL 461E RE101 or RS101 alternative test procedures.
FESP 5133 1330	Circular radiating loop for extremely high field strength up to several mT, 225 turns, acc. SF 01 G, VG95377.
FESP 5135	Radiating coil diam. 0.5 m, 20 turns in one layer, acc. EN 55103-2 A.3.1
RSAL 5340	LF 3-dimensional magnetic rolling stock antenna for the lower frequency range acc. to CLC/TS 50238-3:2010. 10 kHz to 100 kHz.
RSAH 5324	3-dimensional magnetic rolling stock antenna for the higher frequency range acc. to CLC/TS 50238-3:2010. 100 kHz to 1.3 MHz.
RSA COVER	Dirt and weather protection cover to house the rolling stock antennas RSAL 5340 or RSAH 5324 and to fix the antenna to the rail track.

	Antenna Masts / Tripods / Adapters
AM 9104	Detachable Antenna Mast System (glass-fibre tubing) for VHF-UHF Antennas, manual height scanning 0.4 m to 4 m, insulated mast and antenna box with 0°/90° detents, zinc-plated / stainless steel 3-leg mast foot.
Opt. wheels (2)	Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg mast foot
Opt. GF	Alternative Option: Non metallic (glass-epoxy) mast foot for AM 9104
AM 9144	Glass – Epoxy tube Antenna Mast System, height set by screw 1.2 – 2 m, 3/8” thread on top, zinc-plated / stainless steel 3-leg mast foot.
Opt. GF	Option: Non metallic (glass-epoxy) mast foot for AM 9144
Opt. wheels	Option: Caster Wheels and Brakes for 3-leg mast foot
Opt. short	Option: height set range from 0.90 – 1.60 m (shorter version)
AA 9202	Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8” and 1/4” camera threads, polarisation continuously adjustable.
AA 9202 POM	Non metallic mast adapter for most light weight Antenna models with 22 mm tube, minimizes reflections, 3/8” camera thread, polarisation continuously adjustable.
AA 9203	Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8” and 1/4” camera threads polarisation and elevation continuously adjustable
AA 9205	Orthogonal Swivel Adapter for positioning in 3 perpendicular directions. Application: determination of the magnitude of the field strength
AA 9209	Antenna adapter to fix STLP 9128 E, STLP 9128 E special, STLP 9128 D, STLP 9128 D special on AM 9144. Allows antenna rotation without height adjustment. Antenna can be fixed in the center of gravity without any collision with the AM 9144 during polarisation change.
AA 9213	Adapter to convert a 3/8’’ female thread to 22 mm tube, e.g. to fix BBHA 9170 on AM 9104.
RS 9214	Adapter to convert the R&S Aluminum Flange into 22 mm tube with indexing ring.
RA 9215	Indexing adapter for fast & precise polarisation change.
R&S Flange	R&S Flange for Schwarzbeck antenna with 22 mm tube.
KG 9201	Mast Adapter (swivel, 90° vertical/horizontal polarisation for AM 9144), for VULP 9118 D,E,F,G and VUSLP 9111 E only
PPS 9208	Pneumatic polarisation shifter with 2-way pneumatic cylinder for all Schwarzbeck antennas with 22 mm tube on AM 9144. Compressed air required.
SWHA 9204	Swivel handle for light antennas
EA 9207	Adapter for Schwarzbeck antennas with 22 mm tube on EMCO mast.
TA 9204	Thread Adapter with 3/8" female and 1/4" male threads. Mainly for American antenna brands.
TA 9205	Thread Adapter with 1/4" female and 3/8" male threads. (For camera tripods, not for AM 9144)
TA 9206	Thread Adapter with 3/8" female and 5/8" male threads. (Geodesy)
POSITIONER	Positioner for light weight antennas like SBA 9113 with 420 NJ. The positioner consists of: 1 piece of glass fiber tube 22 mm thick, 1000 mm long, an adapter AA 9203 is mounted to the tube. The other end of the tube carries a 3/8 inch male camera thread.
	Field probes
FSH3D	Isotropic H-Field Antenna for the Rohde und Schwarz handheld spectrum analyzer FSH or the TS-EMF System 9 kHz - 200 (300) MHz. Light weight low attenuation radom, outer diameter ca. 150 mm. The selection of the active loop and the power supply for the antenna is provided by the included short cable that can directly be connected to the R&S FSH.
FSHPH	Passive H-Field probe for handheld spectrum analyzers to measure large magnetic fields to analyze health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236.
FSHPE	Passive E-field probe for handheld spectrum analyzers to measure large electric fields to analyze health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236.

Reliant EMC	Schwarzbeck Mess-Elektronik	
	Calibration price list	**Examples**
CAL BIC 1ST SET UP	Calibration of a biconical antenna. Quasi free space antenna factor and gain. First test distance: far field, reference point: center of the bicone antenna.	VHA 9103 B w. BBA 9106, UBAA 9114 w. BBUK 9139, VUBA 9117, SBA 9119, HK116, POD16, POD618, EMCO 9104C, 3109, VBA 6106A, SAS-540
CAL LOG 1ST SET UP	Calibration of a log.-per. antenna. Quasi free space antenna factor and gain. First test distance: 3 m, reference point: center of the log.-per. antenna.	VULP 9118 A, USLP 9143, VUSLP 9111, HL223, HL040, EMCO 3148 B, 3144, 3147, UPA 6108, 6109, SAS-512
CAL LOG 2ND SET UP	Calibration of a log.-per. antenna. Quasi free space antenna factor and gain. Further test distance: 1 m, reference point: tip of the log.-per. antenna.	VULP 9118 A, USLP 9143, VUSLP 9111, HL223, HL040, EMCO 3148 B, 3144, 3147, UPA 6108, 6109, SAS-512
CAL HYBR 1ST SET UP	Calibration of a hybrid or Biconilog or Logbicon antenna. Quasi free space antenna factor and gain. First test distance: 3 m, reference point: center of the hybrid antenna.	VULB 9168, VULB 9163, CBL 6111, 6112, 6141, R&S HL562, EMCO 3142, SAS-521
CAL HYBR 2ND SET UP	Calibration of a hybrid or Biconilog or Logbicon antenna. Quasi free space antenna factor and gain. Further test distance: 10 m reference point: center of the hybrid antenna.	VULB 9168, VULB 9163, CBL 6111, 6112, 6141, R&S HL562, EMCO 3142, SAS-521
CAL HORN 1ST SET UP	Calibration of a horn antenna. Quasi free space antenna factor and gain. First test distance: 1 m, reference point: front plane of the horn antenna.	BBHA 9120 D, BBHA 9120 E, EMCO 3106, 3115, 3116, 3117, R&S HF907,
CAL HORN 2ND SET UP	Calibration of a horn antenna. Quasi free space antenna factor and gain. Further test distance: 3 m, reference point: front plane of the horn antenna.	BBHA 9120 D, BBHA 9120 E, EMCO 3106, 3115, 3116, 3117, R&S HF907
CAL ROD	Calibration of the antenna factor of an active rod antenna with calibration adapter. (Distance not applicable)	VAMP 9240, VAMP 9243, EMCO 3301, R&S HFH2- Z1, HFH2-Z6
CAL LOG SPIRAL	Calibration of a conical log.-spiral antenna. Quasi free space antenna factor and gain. First test distance: 1 m, reference point: tip of the log.-spiral antenna.	HLX 0810, CLSA 0110, EMCO 3101, 3102, 3103
CAL DIPOLE FIRST	Calibration of gain and antenna factor of a half wave dipole for the first frequency. The element length is tuned to the first required frequency.	VHA 9103, UHA 9105, UHA 9125 C, VDA 6116A, EMCO 3121D
CAL DIPOLE FURTHER	Calibration of gain and antenna factor of a half wave dipole for further frequencies. The element length is tuned to the related frequency each time.	VHA 9103, UHA 9105, UHA 9125 C, VDA 6116A, EMCO 3121D
CAL UHA 9125 D	Calibration of gain and antenna factor of a half wave dipole UHA 9125 D with 6 sets of fixed length elements. Settings for total element length LE and short: LE: 140 mm Short: Removed. LE: 114 mm, Short: Removed. LE: 90 mm Short: 45 mm. LE: 72 mm Short: 36 mm. LE: 60 mm Short: 30 mm. LE: 48 mm Short: 24 mm.	UHA 9125 D
CAL VHAP/UHAP	Calibration of gain and antenna factor for a pair of 2 antennas measured in a calibration adapter, frequency range: 30-300 MHz or, 300-1000 MHz.	VHAP, UHAP, R&S HZ-12, HZ-13
CAL EFS 9218	Calibration of the antenna factor of an EFS 9218 in a Crawford cell.	EFS 9218

CAL VUFM	Calibration of an electric field probe VUFM 1670 (eventually with LCD unit VUFM 1671 or GPIB unit VUFM 1672). At 10 MHz we calibrate 15 different field strength levels that are produced by a TEM cell.	VUFM 1670, VUFM 1671, VUFM 1672
CAL 9122 LW MW KW	Calibration of a HFBA 9122 with elements in a range 100 kHz to 30 MHz in a TEM cell.	HFBA 9122
CAL MAG LOOP RX	Calibration of the magnetic antenna factor and the fictitious electric field antenna factor of an Rx loop.	FMZB 1516, HFH2-Z2, HLA 6120, EMCO 6502
CAL HFS HMDA	Calibration of a magnetic field probe like HMDA 1545, FMZB 15xx series or HFS 1546 in a calibration adapter or in a TEM cell.	HMDA 1545, FMZB 1538, HFS 1546
CAL FESP	Calibration of a monitor loop: The conversion factor from magnetic field strength to voltage across 50 Ohm is determined. For a radiating loop the conversion factor from current to magnetic field strength in a certain distance is determined.	FESP 5133, FESP 5132, FESP 5134, FESP 5133-7/41, F-304, F-305, 7605, 7606
CAL HHS	Calculation of the conversion factor from current to magnetic field (coil factor) in the center of a square or circular pair of Helmholtz coils if the geometry is known. Additionally measurement of the coil factor.	HHS 5204-36, HHS 5204-12, HHS 5215, HHS 5218, 6402, 6404
CAL HFCD HXYZ	Calibration of the conversion factor in dBOhm of the transmission between a calibration dipole and a large 3 dimensional van Veen loop antenna acc. EN 55016-1-4:2007 + A1:2008 C.4 for 3 perpendicular directions.	HXYZ 9170, HFCD 9171, HM020, HM020Z3, RF-300
CAL DAF BIC	Calibration of the Dual antenna factor of a pair of biconical antennas acc. to the 2-antenna-method. The sum of the antenna factors of the pair is determined and divided by 2. Test distance: 3 m between the centers of the biconical antennas. Quasi free space conditions.	A pair of VHBB 9124 with BBA 9106, a pair of HK116
CAL DAF LOG	Calibration of the Dual antenna factor of a pair of log.-per.-antennas acc. to the 2-antenna-method. The sum of the antenna factors of the pair is determined and divided by 2. Test distance: 3 m between the centers of the log.-per.- antennas. Quasi free space conditions.	A pair of VULP 9118 A, A pair of VUSLP 9111
CAL SITE REF	Calibration of the site reference based on the antenna combination of a small biconical antenna as Tx and a hybrid antenna as Rx antenna 30-1000 MHz in a distance of 3 m form the center of the hybrid antenna for validation of a fully anechoic chamber acc. to CISPR16-1-4.	UBAA 9114 or UBAA 9115 w. elements BBUK 9139 with VULB 9168 or VULB 9163 or CBL 6111 or EMCO 3142 or HL562
CAL CROSS	Calibration of the cross polarisation	XSLP 9142, VULX 9163,
POLAR	rejection and the internal cross polarisation decoupling of a dual polarized antenna.	XSLP 9143, BBHX 9120 E, BBHX 9120 LF, 3164-05, 3164-06, 3164-08
CAL VSWR	Calibration of the VSWR at the antenna connector.	All antennas and many other devices
CAL PATTERN FIRST	Recording the directional pattern of an antenna in E-plane and H-plane for the first frequency.	SBA 9112, SBA 9113, SBA 9119, POD16, POD618
CAL PATTERN FURTHER	Recording the directional pattern of an antenna for any further frequency.	SBA 9112, SBA 9113, SBA 9119, POD16, POD618

Calibration prices for conducted measurands		
Cal BBV	Calibration of the gain of a broadband preamplifier.	BBV 9742, BBV 9718, PAM-0118, TS-PR1, TS- PR3, TS-PR7
CAL CABLE	Calibration of the attenuation of a coaxial cable or an attenuator.	AK 9513, AK 9515 G, Sucoflex 104, RG223
CAL VTSD	Calibration of the attenuation of a pulse limiter.	VTSD 9561 F, VTSD 9561 D, PL-01, ESH3-Z2
CAL SY 9501	Calibration of the attenuation between 2 ea SY 9501	SY 9501
CAL TK	Calibration of the insertion loss of a HF voltage probe	TK 9420, SHC, ESH2-Z3
CAL V-LISN 1	Calibration of the magnitude of the impedance at DuT terminals (BNC terminated with 50 Ohm) and calibration of the transmission from the DuT terminals to BNC according to EN 55016-1-2:2004 + A1:2005.	NSLK 8127, ENV216, ESH3-Z5, NSLK 8126, ESH2-Z5, NSLK 8128, ENV4200, NNLK 8129, NNLK 8130, NNBM 8125, NNBM 8126 D, ESH3-Z6, NNBL 8226
CAL V-LISN 2	Additionally to CAL V-LISN 1: Calibration of the phase of the impedance at DuT terminals and calibration of the isolation between mains terminals and DuT terminals or BNC connector respectively acc. to EN 55016-1-2:2004 + A2:2006.	NSLK 8127, ENV216, ESH3-Z5, NSLK 8126, ESH2-Z5, NSLK 8128, ENV4200, NNLK 8129, NNLK 8130
CAL ISN 1	Transmission EuT to BNC, AE to BNC @ EuT open, AE to BNC @ EuT shorted. Common mode (asymmetrical) impedance at EuT terminals, BNC terminated with 50 Ohm.	NTFM 8131, NTFM 8132, NTFM 8136
CAL ISN 2	Longitudinal Conversion Loss LCL at the EuT Terminals	NTFM 8132, NTFM 8136
CAL CDN Z	Calibration of the impedance of a CDN.	L801M2, L801AF2,L 801S8
CAL CDN K	Calibration of the k-factor of a CDN additionally to its impedance.	L801M2, L801AF2, L801S8
CAL EM 101 ATT/DECOU	Calibration of an EM 101: Attenuation N- connector-EuT-cable and decoupling (absorber effectiveness).	EM 101, F-2031, KEMZ 801
CAL CVP	Calibration of the insertion loss of a capacitive voltage probe CVP 9222.	CVP 9222, CVP 2200
CAL SW	Calibration of the transfer impedance or the insertion loss of a current clamp.	SW 9602, SW 9605, F-33-2, EZ-17
CAL FTC 101	Calibration of the insertion loss in a 50 Ohm System in a jig	FTC-101
CAL IGLK/IGU	Calibration of an IGLK 2914 or IGU 2912.	IGU 2912, IGLK 2914
CAL IGUF	Calibration of an IGUF 2910.	IGUF 2910
CAL IGUU	Calibration of a pulse generator IGUU 2916. Output level of the main and aux.- generator across 50 Ohm at Quasi peak detection in all bands.	IGUU 2916, IGUU 2918
CAL KU 9616	Calibration of the attenuation of a KU 9616 or a KU 9618.	KU 9616, KU 9618
CAL MDS 1	Calibration of the insertion loss acc. to CISPR 16-1-3 Ed. 2.0 in large jig with secondary absorbing device and calculation of the Clamp Factor CForig, which is finally needed for correction purposes during disturbance power measurements. Please send the MDS 21, the coaxial cable and the 6 dB attenuator. The attenuation of cable and attenuator will then be taken into account.	MDS 21, Kyoritsu KT-10, AMZ 41A
CAL MDS 22	Calibration of the insertion loss in the calibration jig.	MDS 22

CAL MG	Calibration of the output level of a tracking generator vs. frequency.	MG 1522
CAL REC A,B	Calibration of an EMI receiver Band A and B. Calibration of the available detectors Quasi Peak, Peak, Average, CAV and CRMS at sine or pulse signals. Step attenuator calibration, passband selectivity and random noise.	FCKL 1528, ESH2
CAL REC C,D,E	Calibration of an EMI receiver Band C and D (and E). Calibration of the available detectors Quasi Peak, Peak, Average, CAV and CRMS at sine or pulse signals. Step attenuator calibration, passband selectivity and random noise.	FCVU 1534, ESV
CAL REC A,B,C,D,E	Calibration of an EMI receiver Band A, B, C, D and E. Calibration of the available detectors Quasi Peak, Peak, Average, CAV and CRMS at sine or pulse signals. Step attenuator calibration, passband selectivity and random noise.	FCLE 1535, ESCS30
CAL SG	Calibration of the voltage level across 50 Ohm of a spectrum generator SG 9301.	SG 9301, SG 9302

Reliant EMC	Schwarzbeck Mess-Elektronik LISN Line Impedance Stabilization Networks
NSLK 8127	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm || 50 Ohm, 250 µH isolating choke can be shorted, 2 x 16 A Schuko socket, Artificial Hand.
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
Opt. PLC	Option: Power Line Communication, according to EN 50065-1, selectable ranges: 3 – 9 kHz, 9 – 95 kHz, 95 kHz – 30 MHz.
NSLK 8126	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm || 50 Ohm, 250 µH isolating choke can be shorted, 4 x 16/25 A, 2 x 16 A Schuko and 4 x 16 A CEKON socket, Artificial Hand.
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
NSLK 8128	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm || 50 Ohm, 250 µH isolating choke can be shorted, 4 x 32/50 A, 2 x 16 A Schuko and 4 x 32 A CEKON socket, Artificial Hand.
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
NNLK 8121	V-LISN, 9 kHz – 30 MHz, 50 µH + 5 Ohm || 50 Ohm, 250 µH isolating choke, 4 x 50 (100) A, wing terminals (For continuously 100 A add the options cont. high current and cooling fans!)
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
Opt. cont. high current	Option: cont. high current, additional terminals to bypass the 250 µH chokes, provides less voltage drop and less heating.
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Opt. Fans	Option: Cooling Fans
NNLK 8129	V-LISN, (9) 150 kHz – 30 MHz, 50 µH || 50 Ohm, 4 x 200 (300) A, wing terminals, low voltage drop, High power resistors
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
Opt. Fans	Option: Cooling Fans
NNLK 8130	V-LISN, (9) 150 kHz – 30 MHz, 50 µH || 50 Ohm, 4 x 400 (500) A, wing terminals, low voltage drop, High power resistors, cooling fans.
Opt. RC	Option RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, including remote control cable for your receiver type (Please specify your receiver type!). LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke.
Opt. 400/700 V	Option: 400/700 V Voltage to Neutral / Voltage between lines
NNLK 8140	Single Path V-LISN, (9) 150 kHz – 30 MHz, 50 µH || 50 Ohm, 1 x 800 A continuously (1000 A short time), wing terminals, low voltage drop, High power resistors, cooling fans. Max. Voltage: 1000 V DC or 650 V AC 50/60 Hz.

	Single path LISN (Automotive) CISPR 25 / ISO 7637
NNBM 8124	Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance (5µH + 1 Ohm) || 50 Ohm. Max. 70 (100) A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, BNC female connector.
Opt. N	Option for NNBM 8124: N-female connector instead of BNC.
NNBM 8124-200	Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance (5µH + 1 Ohm) || 50 Ohm. Max.200 A. With switchable 50 Ohm load and switchable 1 mikrofarad capacitor at mains side, single path, BNC female connector.
Opt. N	Option for NNBM 8124-200: N-female connector instead of BNC.
NNBM 8124-400	Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance (5µH + 1 Ohm) || 50 Ohm. Max. 400 A. With switchable 50 Ohm load and switchable 1 mikrofarad capacitor at mains side, single path, BNC female connector.
Opt. N	Option for NNBM 8124-400: N-female connector instead of BNC.
NNBM 8126 A 890	LISN 5 µH || 50 Ohm, 70 (100) single path. Similar to NNBM 8126 A but suitable for 600V DC and 270 V AC 890 Hz. Calibrated up to 400 MHz according to DO-160.
	Two path LISN (Automotive) CISPR 25 / ISO 7637
NNBM 8126 G	LISN 5 µH || 50 Ohm, 70 (100) A, two paths, two BNC-connectors, including 1 each 50 Ohm dummy load.
	HV-LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1
NNHV 8123	High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance (5µH) || 50 Ohm. 70 (100) A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600!
NNHV 8123-200	High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance (5µH) || 50 Ohm. 200 A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600!
NNHV 8123-400	High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance (5µH) || 50 Ohm. 400 A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600!
HVSE 8600	Shielded housing for 2 HV-LISN, 2 paths with cable feed through for HV+ and HV-, shield can be connected to the housing, 2 measurement ports N, 1 monitor port N, with connecting cables between inside measurement ports and outside N- connectors. All models of the NNHV- and NNBM-series can be inserted. For full CISPR 25 Ed. 4 compliance a modification of the back side circuitry of the NNBM series is required!
Opt. 8600-100	1 pair of flange panels for HVSE 8600 with cable feed through for shielded cables up to ca. 100 A.
Opt. 8600-200	1 pair of flange panels for HVSE 8600 with cable feed through for shielded cables suitable for max. currents in a range of ca. 100 A to 200 A.
Opt. 8600-400	1 pair of flange panels for HVSE 8600 with cable feed through for shielded cables suitable for a range of ca. 200 A to 400 A.
	BAN Broadband Artificial Networks acc. ISO 11452-7 or DC-10614
BAN 8508	BAN broadband artificial network 2 A - 8 A acc. ISO 11452-7 or DC-10614
BAN 8530	BAN broadband artificial network 8 A - 30 A acc. ISO 11452-7 or DC-10614
DC-Block 500	DC-blocking capacitor BNC for direct injection with BAN

	LISN according to MIL 461 MIL 462
NNBL 8225	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm || 50 Ohm, 20 A, 50 Hz AC 250V, single path, Mil. Std. 461/462.
NNBL 8226	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm || 50 Ohm, 70 (100) A, 50 Hz AC 250 V, single path, Mil. Std. 461/462.
NNBL 8226- HV	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm || 50 Ohm, 70 (100) A, 50 Hz AC 800 V, single path, Mil. Std. 461/462.
NNBL 8226-2	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm || 50 Ohm, 70 (100) A, 50 Hz AC 250 V, two path, Mil. Std. 461/462.
NNBL 8230	V-LISN (9) 150 kHz – 100 MHz, 50 µH + 5 Ohm || 50 Ohm, 300 A, 50 Hz AC 250 V, single path, Mil. Std. 461/462.
	Special LISN and accessories
NDTV 8160	Universal Delta-, T-, V-LISN
PVDC 8300	PV LISN, 1500 V, 50 A, common mode impedance 150 Ohm, Z differential mode = 100 Ohm, air coils 280 microhenry.
PVDC 8300 Opt. Fans	Option for PVDC 8300: Fans for a maximum continuous current of 100 A.
PVDC 8301	PV-LISN for the DC side of grid connected power converters GCPC, 1500 V, 200 A, common mode impedance = 150 Ohm, differential mode impedance = 100 Ohm, air coils 280 microhenry.
TEMP 8400	Tempest LISN 9 kHz to 1 GHz, 2 path model 10 A, N-connectors for DuT power supply and N-connectors for the 2 measurement ports. The unit allows to listen to even the smallest signals on power lines.
TEMP 8401	Adapter N-male to wing terminals for TEMP 8400
NPLC 8500	LISN acc. to recommendation ITU-T G.9901: 250 Volt 16 A, 1 path, wing terminals, measuring output BNC, to measure the power spectral density of PRIME transceivers for power line communication.
CMDM 8700	Common mode differential mode noise separator for V-LISN, 2 BNC inputs, 1 BNC output. 9 kHz-30 MHz.
SY 9223-50561-1	2:1 balun acc. to EN 50561-1:2013 figure 4 to measure PLC transmit signal levels 150 kHz to 30 MHz
SPLIT 100	100 Ohm symmetrical splitter acc. EN 50561-1:2011.
SYMAT 40	100 Ohm symmetrical variable attenuator 0-50 dB in 10 dB steps.
6dB Splitter	Coaxial splitter 50 Ohm (Third party product which we would get fro Weinschel or comparable)
CU 50561-1	Coupling unit acc. EN 50561-1:2013 figure 3, R=2,5 kOhm, C=1nF.
ISN 50561-1	ISN acc. EN 50561-1:2013 Annex B, figure B.1.
100nF1MOhm	Housing with security banana jacks and built in 1,0 MOhm patrallel 100 nF 400 V.
CABLES	Cables with banana plugs / -jacks / lugs / coaxial connectors to conect all components of the EN50561-1:2013 system.
Opt. 2 µF + 50 Ohm	Opt. for SY 9223-PLC: 2 µF + 50 Ohm, in isolated housing, banana jacks.
	ISN / T-Networks
NTFM 8131	T-ISN 150 Ohm asymmetric 50 Ohm unsymmetric, 2-wire, 400 V AC, 9 kHz – 30 MHz, CISPR 22 D1/EN55015-2002
NTFM 8158	ISN T8 CAT6 (LCL = 75 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP.
CAT5 8158	ISN T8 CAT5 (LCL = 65 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP.
CAT3 8158	ISN T8 CAT3 (LCL = 55 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP.
ISN S8	ISN for screened RJ45 or RJ11 connections, 2, 4 or 8 wire, acc. D.11 CISPR 22 Ed.5.2.
ISN S1	ISN acc. CISPR 22 Ed.5.5:2006, Annex D, D9 for coaxial lines
EAB8 50-150	Adapter 50 to 150 Ohm for conducted immunity testing with the ISNs NTFM 8158, CAT5 8158 or CAT3 8158
DUMMY 9554	Dummy Load 50 Ohm BNC plug, 0.5W

	Voltage Probes
TK 9417	HF-Probe, 2.5 kOhm
TK 9420	High-Voltage-Probe, 1.5 kOhm, 4 pF, 9 kHz – 30 MHz, RF < 30 V
VT 9420	Plug-In divider 1.5 kOhm for TK 9420 probe for determination of disturbance source impedance
TK 9421	High Power Voltage Probe, 1.5 kOhm, 4 pF, 150 kHz – 30 MHz RF < 100 V
TK 9422	High Power Voltage Probe, 5 kOhm, 4 pF, (9) 150 kHz – 30 MHz RF < 100 V
	EMI Receivers
FCKL 1528	EMI-Receiver acc. CISPR 16-1, 9 kHz – 30 MHz, 5 Detectors: Quasipeak, Peak, Average, CAV, CRMS. Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator, GPIB-Interface.
Opt. XY-Rec.	Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder.
Opt. TG	Option: Built-In Tracking Generator, Output Level 120 dBµV.
Opt. Softw.	Option: Schwarzbeck-Software FCKL for EMI-Measurement
FCVU 1534	EMI-Receiver acc. CISPR 16-1, 20 – 1050 MHz, 5 Detectors: Quasipeak, Peak, Average, CAV and CRMS, Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator, GPIB-Interface.
Opt. XY-Rec.	Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder.
Opt. TG	Option: Built-In Tracking Generator, Output Level 120 dBµV P.D.
Opt. Softw.	Option: Schwarzbeck-Software FCVU for EMI-Measurement
FCLE 1535	EMI-Receiver acc. CISPR 16-1, 9 kHz – 3.25 GHz, 5 Detectors: Quasipeak, Peak, Average, CAV and CRMS. Protected Input, Automatic Calibration w. built- in Pulse Generator, GPIB-Interface.
Opt. Softw.	Option: Schwarzbeck-Software for FCLE for EMI-Measurement
INES PCI 488	IEEE 488 32-bit PCI-Slot PC Plug-In Card (BKAB 488 necessary)
INES PCMCIA 488	IEEE 488 32-bit PCMCIA (Type II) Plug-In Card for portable Computers (Notebook) including 2 m cable
BKAB 488	IEEE 488 cable, 2 m, necessary for PCI card, not necessary for PCMCIA card
	Pulse Generators
IGUU 2916	Universal Calibration Pulse Generator acc. CISPR 16 for Bands A, B, C, D (9 kHz – 1000 MHz), especially for EMI Receiver Tests (Pulse weighting, Overload), Signal generator 100 kHz, 1 MHz, 10 MHz, 100 MHz (60 dBµV). Pulse Repetition Frequency 0.1 Hz – 200 Hz (20 kHz), Output Level adjustable in 1 dB steps, GPIB-Interface.
Opt. RecTest Softw.	Option: Receiver Test Software for IGUU 2916 or 2918 signal generator and EMI- receiver to perform an automatic calibration of an EMI receiver acc. to CISPR 16-1-1.
Opt. KU 9616	Option: Coaxial Switching Unit for automatic performance tests with IGUU 2916, N-Connectors female.
IGUU 2918	Calibration-Pulse Generator acc. CISPR 16 for Band A, B, C, D (9 kHz-1000 Hz) To calibrate the pulse response of EMI receivers. Pulse repetition frequency main generator 0.1 – 200 Hz (aux. generator up to 1 MHz) with IEEE-488 Interface.
Opt. RecTest Softw.	Option: Receiver Test Software for IGUU 2916 or 2918 signal generator and EMI- receiver to perform an automatic calibration of an EMI receiver acc. to CISPR 16-1-1.
Opt. KU 9618	Option: KU 9618 Coaxial Switching Unit for automatic performance tests with IGUU 2918, N-Connectors female
IGUF 2910	Battery driven High Power Pulse Generator, Pulse Repetition Frequency 300 Hz, weighted CISPR Level 80 dbµV (Quasipeak, 120 kHz IF-BW). Broad band signal source up to 300 (1000) MHz w. 0.5 ns Pulses of 300 V at 50 Ohm
LGA 9802	Automatic Charging Unit 230 V for IGUF 2910

	Accessories
	Coaxial Cables
AK 9513	50 Ohm Coax. Cable with N plugs, individual length, usable up to 3 (5) GHz, Basic price Euro 80,00 + price / m Euro 5,00 + price for individual calibration Euro 80,00. Indiv. Cal. possible if cable longer than 3 m. Standard lengths: 3 m, 5 m, 10 m.
AK 9515 D	50 Ohm Coaxial Cable with N plugs, low loss, limited flexibility, usable up to 10 (18) GHz, 10.5 mm diam.
AK 9515 E	50 Ohm Coaxial Cable with N plugs, low loss, good flexibility, usable up to 10 (18) GHz, 10.8 mm diam.
Price Per Meter	Price per meter AK 9515 E
AK 9515 E	50 Ohm Coaxial Cable with N plugs, low loss, good flexibility, usable up to 10 (18) GHz, 10.8 mm diam.
Price Per Meter	Price per meter AK 9515 E
AK 9515 G	50 Ohm Coaxial Cable available with N- or 7/16-plugs,very low loss, high power, good flexibility, usable up to 6 GHz, 14.6 mm diam.
AK 9515 H	50 Ohm Microwave Coaxial Cable with N- or SMA-connectors, low loss, flexible, usable up to 18 GHz.
MSS 9630	Sheath current blocking cable to avoid coupling effects caused by braid currents. Standard configuration: N-male, N-female, length ca. 0.3 m
RG58C/U	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
Price Per Meter	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
RG58C/U	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
Price Per Meter	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
RG223/U	50 Ohm coaxial cable with BNC-plugs
Price Per Meter	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
RG223/U	50 Ohm coaxial cable with BNC-plugs
Price Per Meter	50 Ohm coaxial cable with BNC-plugs, mainly to be used with LISN.
	Fixed Attenuators
DGA 9552 N	Bidirectional Attenuator N-female N-male to 18 GHz, 50 Ohm 5 Watt. Available values: 3 dB, 6 dB, 10 dB, 20, 30, 40 dB.
VTSD 9561 F	Diode Pulse Limiter + 10 dB Attenuation, fuse lamp, N or BNC, please select!
VTSD 9561 D	Diode Pulse Limiter + 20 dB Attenuation, fuse lamp, BNC
VTSD 9562	Bandpass and Limiter for Partial Discharge Measurements BNC
	Current Clamps and calibration adapters
SW 9602	Current Transformer, shielded, 0.01 - 200 MHz, Transfer Impedance: 1 Ohm for wires up to 6.5 mm.
SW 9603	Current Transformer, shielded, 9 kHz - 150 MHz, Transfer Impedance: 1 Ohm for wires up to 14 mm.
SW 9605	Current Transformer Clamp CISPR 22, 9 kHz - 80 MHz, Transfer Impedance: 1 Ohm for wires up to 23 mm.
SW 9606	Current injection clamp for RF current injection into harnesses up to 23 mm diamter, transducer 18 dB.
CA 9607	Universal calibration adapter for current clamps, test jig for ferrites, length adjustable.
CA 9608	Universal calibration adapter for e.g. the following current clamps: R&S ESV-Z1, Prodyn, IT-050-1, length and height settable.

	Baluns
SY 9223-120	Balun for transmission measurements acc. to IEC61643-21. 50 Ohm N to 120 Ohm screw terminals.
SY 9223- CISPR 13	Broad band isolation transformer acc. CISPR 13 fig. A.2, 50 Ohm 75 Ohm.
SY 9223-PLC	1:1 PLC balun acc. to EN 50065-2-1 2003 + A1:2005 für Immunity against small band disturbance voltage. 3 kHz - 30 MHz, BNC and banana jacks.
Opt. 2 µF + 50 Ohm	Opt. for SY 9223-PLC: 2 µF + 50 Ohm, in isolated housing, banana jacks.
SY 9501	Balun unsymm. 50 Ohm to symm. 150 Ohm EN 55015, CISPR 15
SY 9223-17-100	Broadband transformer 1:1,4 or 50 Ohm : 100 Ohm respectively acc. to CISPR 17 for filter measurements. 100 Ohm-side with banana jacks. 50 Ohm-side with BNC-jacks.
SY 9223-17-0.1	Broadband transformer 22:1 or 50 Ohm : 0.1 Ohm respectively acc. to CISPR 17 for filter measurements. 50 Ohm-side with BNC-jacks, 0.1 Ohm-side with banana jacks.
	Other passive devices
BD 9501	IEEE-488 Bus-Feed through for flange mounting (shielded rooms) (other feed throughs on request)
HPF	High Pass Filter 35 - 1000 MHz, Insertion loss at 27.12 MHz typ. 100 dB
TF 130-150	Test Fixture for Ford RI 130/ 150 Per EMC-CS-2009
VDHH 9502	Van der Hoofden test head with protection network and individual calibration of the network acc. IEC62493 or VDE 0848-493.
CISPR 17 Equipment	Transformers, fixtures and adapters to measure filters, ferrites and other passive components. Detailed product list and data sheets on request.
BN 1701	Buffer network (set of 2 pieces) acc. CISPR 17 Annex D2, D3, max. current: 32A, connectors: wing terminals, BNC female.
CCC 9224	Capacitive coupling clamp for transients acc. to ISO 7637-3 or DC-10614 B.5.
CCP 9225	Capacitive coupling plate similar to ISO 7637-3 acc. to MBN 10284-2, 2011-04 or MBN 10284-4, 2011-04 for CV tests.
	Preamplifiers
BBV 9743	Broadband Coaxial Preamplifier gain max. 30 dB, 10 MHz – 6 GHz, low noise floor, N-jack N-plug, including power supply.
BBV 9744	Broadband Coaxial Preamplifier gain max. 30 dB, 9 kHz – 6 GHz, low noise floor, N-jack N-plug, including power supply.
BBV 9745	Broadband Coaxial Preamplifier gain max. 30 dB, 9 kHz –2 GHz, low noise floor, N-jack N-plug, improved ESD protection, including power supply.
BBV 9718	Broadband Coaxial Preamplifier typ. 33 dB, 1 - 18 GHz with fixture for 22 mm antenna tube, and N to SMA cable, power supply 12 V 250 mA necessary.
Opt. PS	Option Power supply for BBV 9718 or 9719.
Opt. Battery	Option Rechargeable battery pack for BBV 9718 or 9719.
Opt. ALCS 2-24A	Battery charger ALCS 2-24A for rechargeable battery pack
BBV 9719	Broadband Coaxial Preamplifier typ. 33 dB, 18-26.5 GHz, power supply 12 V 300 mA necessary. Including short cable with SMA plugs to connect the BBV 9719 with the antenna (for example BBHA 9170).
Opt. PS	Option Power supply for BBV 9718 or 9719.
Opt. Battery	Option Rechargeable battery pack for BBV 9718 or 9719.
Opt. ALCS 2-24A	Battery charger ALCS 2-24A for rechargeable battery pack.
BBV 9721	Broadband Coaxial Preamplifier typ. 30 dB, 18-40 GHz. Including short cable with 2.92 plugs to connect the BBV 9721 with the antenna (for example BBHA 9170). Noise figure 5.5 dB, P1dBmin=15 dBm, VSWR max in/out = 2,6.
Opt. PS 9721	Power supply unit for BBV 9721 including cables with secuity plugs, can be used for 110 and 230 V.
Opt. PS 9721 Battery	Power supply unit for BBV 9721 including cables with security plugs, can be used for 110 V and 230 V. Built in rechargeable battery. This unit can supply power to the BBV 9721 without connection to mains. Charging electronics also included.

	Reference radiators, comb generators
SG 9301	Spectrum Generator 30-1000 MHz, spectrum lines switchable 100 Hz – 1 MHz, N-female connector, charger ACS 110 required, main application: reference radiator (antenna required e.g. UBAA 9114 with BBVU 9135)
Opt. ACS 110	Option: Charger ACS 110 for SG 9301.
SG 9302	Comb generator 0.1 – 18 GHz, spectrum lines every 100 MHz, battery driven, including charger for 230 V.
	Field probes
VUFM 1670	E-Field Meter 70 kHz-3 GHz, 1V/m-300V/m, linear polarized, charger ACS 110 required.
VUFM 1671	LCD-Display Unit for VUFM 1670 with 5 m fibre optical link, Additional cost for longer fibre: Euro 5,00/m, charger ACS 110 required.
VUFM 1672	LCD–Display Unit VUFM 1672 for E - Field-Meter VUFM 1670 with optical link and IEEE 488 / GPIB – Interface.
	Other active devices
VHIC 9260	Impedance converter acc. CISPR 25 9 kHz - 30 (120) MHz.
Opt. ACS 110	Option: Charger ACS 110 for VHIC 9260.
CVP 9222	High Impedance Capacitive Voltage Probe acc. to CISPR 22, EN 55022 C 1.3. Frequency range: 9 kHz – 100 MHz.
Opt. ACS 110	Option: Charger ACS 110 for CVP 9222.
Opt. CAL 9222	Option: Calibration Adapter for CVP 9222.
	Near Field Probes
FS-SET 7100	Nearfield Probe Set including HFSL, HFSH, EFS and Separator EW and AC/DC Adaptor in storing case.
HFSL 7101	Active Near Field Probe (magnetic) 9 kHz - 30 MHz (EW 7110 required)
HFSH 7102	Active Near Field Probe (magnetic) 4 MHz - 1000 MHz (EW 7110 required)
EFS 7103	Active Near Field Probe (electric) 9 kHz - 1000 MHz (EW 7110 required)
EW 7110	Coaxial DC-Separator for Near Field Probes HFSL, HFSH, EFS
ACDC 7110	AC/DC Adapter for DC-Separator EW 7110
	Strip lines
TEMZ 5231	50 Ohm Strip line according to ISO 11452-5 for automotive testing, 4.3 x 1.5 x 0.15 m, septum with cylindrical rods, N-connectors, wooden base construction and termination required.
Opt. Termination 150 W	Option: 50 Ohm termination, N-jack,150 Watt, connecting cable for TEMZ 5231
Opt. Termination 500 W	Option: 50 Ohm termination, N-jack, 500 Watt, connecting cable, for TEMZ 5231
Opt. Foldaway	Instead of cylindrical rods to hold the septum there will be side arms. The cell can be folded away vertically. A stainless steel construction with caster wheels supports the cell. Must be ordered together with TEMZ 5231, cannot be refitted.
TEMZ 5232	90 Ohm Strip line according to ISO 11452-5 for automotive testing, 3.5 x 0.9 x 0.15 m, N-connector, built-in termination 90 Ohm, 50 W, wooden base construction required
TEMZ 5233	Closed, unsymmetrical 50 Ohm strip line DC - 420 (600) MHz, Crawford TEM Cell, for E- field probe and H-field probe calibration and for immunity testing. ISO 11452-3, IEEE 1309 und EN 61000-4-20.
TEMZ 5236	Symmetrical Strip line 0.96 x 0.6 x 0.6 m, BNC-connectors, including 4:1 transformer and 50 W dummy load.
TEMZ 5238	Symmetrical strip line acc. to CISPR 20 up to 120 MHz.

	Calibration adapters for V-LISN (V-AMN).
KA 8127	BNC female to Schuko male. Fits for all LISN types with Schuko socket e.g. NSLK 8127, NSLK 8126, NSLK 8128
KA 8126	BNC female to CEE / CEKON 16 A male. Fits for all LISN with 16 A three-phase connector e.g. NSLK 8126. Diameter of Phase rods: 5 mm. Diameter of Neutral rod: 6,9 mm.
KA 8128	BNC female to CEE / CEKON 32 A male. Fits for all LISN with 32 A three-phase connector e.g. NSLK 8128. Diameter of Phase rods: 5,9 mm. Diameter of Neutral rod: 8 mm.
KA 8121	BNC female to 4 mm banana plug. Fits for NNLK 8121 and NDTV 8160.
KA 8129	BNC female to 4 mm banana plug. Fits for NNLK 8129.
KA 8130	BNC female to 4 mm banana plug. Fits for NNLK 8130 and NNLK 8140.
KA 8125	BNC female to terminal wings. Fits for NNBM 8124, NNBM 8125, NNBM 8126 A, NNBM 8125 BCI and NNBL 8225. Diameter of terminals: 8,5 mm, distance of terminals: 60 mm
KA 8126 D	BNC female to terminal wings. Fits for NNBM 8126 D, NNBL 8226-HV, NNBL 8226, NNBL 8226-2, NNBM 8125 BCI with Option 200 A, NNBM 8124-200, NNBM 8126 G. Diameter of terminals: 8,5 mm, distance of terminals: 90 mm
KA 8126 F	BNC female to terminal wings. Fits for NNBM 8126 E, NNBM 8126 F, NNBM 8126 F HYB up to S/N 148. Diameter of terminals: 12,4 mm, distance of terminals: 90 mm
KA 8126 F HYB	BNC female to terminal wings. Fits for NNBM 8124-400, NNBM 8126 F HYB starting from S/N 149. Diameter of terminals: 16,4 mm, distance of terminals: 110 mm
MSS 9630	Sheath current blocking cable to avoid coupling effects caused by braid currents. Standard configuration: N-male, N-female, length ca. 0.2-0,3 m

	CDN acc. EN 61000-4-6, CDNE acc. CISPR 16-1-2 CISPR 15, ferrite clamps, absorbing clamps
	M-Type CDN for mains lines
CDN M1	CDN for Earth conductor 250V AC / 1,000V DC, 16A, 150kHz - 230MHz
CDN M1-32A	CDN for Earth conductor 250V AC / 1,000V DC, 32A, 150kHz - 230MHz
CDN M1- 32A/1000V	CDN for Earth conductor 1,000V AC / 1,000V DC, 32A, 150kHz - 80MHz
CDN M1-50A	CDN for Earth conductor 250V AC / 750V DC, 50A, 150kHz - 80MHz, incl. high- current MC connectors for AE and DUT port
CDN M1-75A	CDN for Earth conductor 250V AC / 750V DC, 75A, 150kHz - 80MHz, incl. high- current MC connectors for AE and DUT port
CDN M1-100A	CDN for Earth conductor 250V AC / 750V DC, 100A, 150kHz - 80MHz, incl. high- current MC connectors for AE and DUT port
CDN M2	CDN for two mains supply lines 250V AC / 250V DC, 16A, 150kHz - 300MHz, AE port with IEC 320 connector
CDN M2 Banana	CDN for two mains supply lines 250V AC / 1,000V DC, 16A, 150kHz - 230MHz, AE port with banana connectors
CDN M2-500V	CDN for two mains supply lines 500V AC / 1,000V DC, 16A, 150kHz - 80MHz
CDN M2-750V	CDN for two mains supply lines 750V AC / 1,000V DC, 16A, 150kHz - 80MHz
CDN M2-1000V	CDN for two mains supply lines 1,000V AC / 1,000V DC, 16A, 150kHz - 80MHz
CDN M2-32A	CDN for two mains supply lines 250V AC / 1,000V DC, 32A, 150kHz - 230MHz
CDN M2-32A/750V	CDN for two mains supply lines 750V AC / 1,000V DC, 32A, 150kHz - 80MHz
CDN M2-32A/1000V	CDN for two mains supply lines 1,000V AC / 1,000V DC, 32A, 150kHz - 80MHz
CDN M2-50A	CDN for two mains supply lines 250V AC / 750V DC, 50A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M2-50A/750V	CDN for two mains supply lines 750V AC / 750V DC, 50A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M2-75A	CDN for two mains supply lines 250V AC / 750V DC, 75A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M2-100A	CDN for two mains supply lines 250V AC / 750V DC, 100A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M2/M3	CDN for two or three supply lines, switchable, 250V AC / 250V DC, 16A, 150kHz - 300MHz, AE port with IEC 320 connector, CDNE M2 or CDNE M3 for CISPR 15 also available!
CDN M3	CDN for three mains supply lines 250V AC / 250V DC, 16A, 150kHz - 300MHz, AE port with IEC 320 connector
CDN M3 Banana	CDN for three mains supply lines 250V AC / 1,000V DC, 16A, 150kHz - 230MHz, AE port with banana connectors
CDN M3-500V	CDN for three mains supply lines 500V AC (L+N+PE) / 1,000V DC, 16A, 150kHz - 80MHz
CDN M3-400V Delta	CDN for three mains supply lines 3x400V AC (L1+L2+L3) / 1,000V DC, 16A, 150kHz - 230MHz
CDN M3-32A	CDN for three mains supply lines 250V AC / 1,000V DC, 32A, 150kHz - 230MHz
CDN M3-32A/400V Delta	CDN for three mains supply lines 3x400V AC (L1+L2+L3), 32A, 150kHz - 230MHz
CDN M3-32A/750V	CDN for three mains supply lines 750V AC (L+N+PE) / 1,000V DC, 32A, 150kHz - 80MHz
CDN M3-32A/750V Delta	CDN for three mains supply lines 3x750V AC (L1+L2+L3) / 1,000V DC, 32A, 150kHz - 80MHz
CDN M3-50A	CDN for three mains supply lines 250V AC / 750V DC, 50A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M3-75A	CDN for three mains supply lines 250V AC / 750V DC, 75A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M3-100A	CDN for three mains supply lines 250V AC / 750V DC, 100A, 150kHz - 80MHz, incl. high-current MC connectors for AE and DUT port
CDN M4 PE	CDN for four mains supply lines (L1+L2+L3+PE) 3x400V AC, 16A, 150kHz - 230MHz
CDN M4 N	CDN for four mains supply lines (L1+L2+L3+N) 3x400V AC, 16A, 150kHz - 230MHz

	S-Type CDN for shielded lines and coaxial cables
CDN S1-50 BNC	CDN for screened coaxial cable, single line, 50ohm BNC, 100V AC / 100V DC, 0.25A, 150kHz - 230MHz
CDN S1-50 N	CDN for screened coaxial cable, single line, 50ohm N, 100V AC / 100V DC, 0.25A, 150kHz - 230MHz
CDN S1-50 SMA	CDN for screened coaxial cable, single line, 50ohm SMA, 100V AC / 100V DC, 0.25A, 150kHz - 230MHz
CDN S1-75 BNC	CDN for screened coaxial cable, single line, 75ohm BNC, 100V AC / 100V DC, 0.25A, 150kHz - 230MHz
CDN S1-75 N	CDN for screened coaxial cable, single line, 75ohm N, 100V AC / 100V DC, 0.25A, 150kHz - 230MHz
CDN S2 BNC	CDN for two screened cables, BNC conn., 100V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN S4 BNC	CDN for four screened cables, BNC conn., 100V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN S4 USB	CDN for screened cable, four lines, USB A conn., 100V AC / 100V DC, 1A, 150kHz - 230MHz
CDN S4-3A BNC	CDN for screened cable, four lines, BNC conn., 100V AC / 100V DC, 3A, 150kHz - 80MHz
CDN S8 RJ45	CDN for screened cable, eight lines, RJ45 conn., 100V AC / 100V DC, 1.5A, 150kHz - 230MHz
CDN S9	CDN for screened cable, nine lines, Sub-D9, 125V AC / 125V DC, 1.5A, 150kHz - 230MHz
CDN S15	CDN for screened cable, 15 lines, Sub-D15, 125V AC / 125V DC, 1.5A, 150kHz - 230MHz
CDN S15 VGA	CDN for screened cable, 15 lines, VGA conn., 125V AC / 125V DC, 1.5A, 150kHz - 230MHz
CDN S25	CDN for screened cable, 25 lines, Sub-D25, 125V AC / 125V DC, 1.5A, 150kHz - 230MHz
CDN S37	CDN for screened cable, 37 lines, Sub-D37, 125V AC / 125V DC, 0.25A, 150kHz - 80MHz
CDN S50	CDN for screened cable, 50 lines, Sub-D50, 125V AC / 125V DC, 0.25A, 150kHz - 80MHz
	T-Type CDN for balanced unscreened communication lines
CDN T2	CDN for unscreened balanced pair, RJ11/banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 230MHz
CDN T2-3A	CDN for unscreened balanced pair, banana conn, 63V AC / 100V DC, 3A, 150kHz - 80MHz
CDN T2-5A	CDN for unscreened balanced pair, banana conn, 63V AC / 100V DC, 5A, 150kHz - 80MHz
CDN T4	CDN for two unscreened balanced pairs, banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 230MHz
CDN T4 XLR	CDN for two unscreened balanced pairs, XLR conn, 50V AC / 50V DC, 1.5A, 150kHz - 230MHz
CDN T4 RJ45	CDN for two unscreened balanced pairs, RJ45 conn, 63V AC / 100V DC,1.5A, 150kHz - 230MHz
CDN T4-3A	CDN for two unscreened balanced pairs, banana conn, 63V AC / 100V DC, 3A, 150kHz - 80MHz
CDN T8 RJ45	CDN for 4 unscreened balanced pairs, RJ45 conn, 63V AC / 100V DC, 1.5A, 150kHz - 230MHz
CDN T8-3A	CDN for 4 unscreened balanced pairs, banana conn, 63V AC / 100V DC, 3A, 150kHz - 80MHz

	AF-Type CDN for non balanced data lines
CDN AF2	CDN for 2 unscreened unbalanced lines, banana conn, 63V AC /100V DC, 1.5A, 150kHz - 300MHz, incl. VDF data for CISPR 15
CDN AF2-250V	CDN for 2 unscreened unbalanced lines, banana conn, 250V AC / 250V DC, 1.5A, 150kHz - 80MHz
CDN AF3	CDN for 3 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 300MHz, incl. VDF data for CISPR 15
CDN AF3-3A	CDN for 3 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 3A, 150kHz - 80MHz
CDN AF3-250V	CDN for 3 unscreened unbalanced lines, banana conn, 250V AC / 250V DC, 1.5A, 150kHz - 80MHz
CDN AF4	CDN for 4 unscreened unbalanced lines, banana conn, 63VAC / 100V DC, 1.5A, 150kHz - 230MHz
CDN AF5	CDN for 5 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN AF6	CDN for 6 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN AF6-250V	CDN for 6 unscreened unbalanced lines, banana conn, 250V AC / 250V DC, 1.5A, 150kHz - 80MHz
CDN AF8	CDN for 8 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN AF10	CDN for 10 unscreened unbalanced lines, D-Sub15 conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN AF15	CDN for 15 unscreened unbalanced lines, D-Sub15 conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
CDN AF25	CDN for 25 unscreened unbalanced lines, D-Sub25 conn, 63V AC / 100V DC, 1.5A, 150kHz - 80MHz
	Special CDN
CDN CAN-4	CDN 4 CAN-Bus, 4-wire, unscreened, 48V, 2A (supply lines, pins 3 (GND) and 9(V+)) and 48V, 2A (CA
	CDNE for emission measurement on luminaries acc. EN 55015
CDNE M2	CDNE with tight tolerances for CISPR 15 emission measurements with 2 mains conductors can also be used as CDNE AF2.
CA CDNE M2 Part A	Part A of the calibration or short adapter for CDNE M2
CA CDNE Part B	Part B of the calibration or short adapter for CDNE M2 or M3
SR100-6W	Adapter 150 to 50 Ohm for CDNE or ISN e.g. ISN S8 or CDNE M2, 0-500 MHz, 6W, connectors: BNC female, 4 mm security banana jack.
CDNE M3	CDNE with tight tolerances for CISPR 15 emission measurements with 3 mains conductors.
CA CDNE M3 Part A	Calibration or short adapter for CDNE M3 part A.

	CDN for IEC 60945 or EN 61326-3-2 10kHz - 80MHz
CDN M1-10kHz	CDN for Earth conductor 250V AC / 1,000V DC, 16A, 10kHz - 80MHz
CDN M2-10kHz	CDN for two mains supply lines 250V AC / 1,000V DC, 16A, 10kHz - 80MHz
CDN M2-10kHz/500V	CDN for two mains supply lines 500V AC / 1,000V DC, 16A, 10kHz - 80MHz
CDN M3-10kHz	CDN for three mains supply lines 250V AC / 1,000V DC, 16A, 10kHz - 80MHz
CDN T2-10kHz	CDN for unscreened balanced pair, RJ11/banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz
CDN T8-10kHz	CDN for 4 unscreened balanced pairs, RJ45 conn, 63V AC / 100V DC, 1.5A,10kHz - 80MHz
CDN AF2-10kHz	CDN for 2 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz
CDN AF3-10kHz	CDN for 3 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz
CDN AF4-10kHz	CDN for 4 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz
CDN AF6-10kHz	CDN for 6 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz
CDN AF8-10kHz	CDN for 8 unscreened unbalanced lines, banana conn, 63V AC / 100V DC, 1.5A, 10kHz - 80MHz

	Calibration or short adapters for CDN
CWS-CAL	Basic calibration kit including 1ea R-100N, 1ea 50cm BNC cable, plastic case
R-100N	Adapter 150-to-50 Ohm for CDN including aluminium angle
CA M1	Calibration adapter for all CDN M1 models, EUT port and AE port
CA M2/M3/AF3(N)	Calibration adapter for CDN M2-32A (AE port only), M3, M3-32A (EUT port and AE port), CDN M2/M3 (EUT port only) and CDN AF3 (EUT port and AE port)
CAA M2/M3N	Cal kit for CDN M2/M3, CDN M2 and CDN M3 (AE-port only) incl. 1ea Adapter IEC 60320, 1ea R-100N, 1ea T-50
CA T2/AF2/M2N	Calibration adapter for CDN T2, AF2 (EUT port and AE port) and M2 and M2-32A (EUT port only)
CA M2/50-100	Calibration adapter for CDN M2-50A, M2-75A and M2-100A (EUT port and AE port)
CA M3/50-100	Calibration adapter for CDN M3-50A, M3-75A and M3-100A (EUT port and AE port)
CA T4/AF4/M4	Calibration adapter for CDN T4 and CDN AF4 (EUT port and AE port), CDN M4 and CDN M4-32A (AE port)
CA M4N	Calibration adapter for CDN M4 N and CDN M4 PE (EUT port)
CA M4/50-100	Calibration adapter for CDN M4-50A, M4-75A and M4-100A (EUT port and AE port)
CA AF5/M5	Calibration adapter for CDN AF5 (EUT port and AE port) and CDN M5 (AE port), M5-32A (AE port) and former CDN M5(16A) (EUT port and AE port)
CA M5N	Calibration adapter for CDN M5 and M5-32A (EUT port)
CA M5/50-100	Calibration adapter for CDN M5-50A, M5-75A and M5-100A (EUT port and AE port)
CA T8RJ45	Calibration adapter for CDN T8RJ45 (EUT port and AE port)
CA AF8	Calibration adapter for CDN AF8 and T8-3A (EUT port and AE port)
CA AF10	Calibration adapter for CDN AF10 (EUT port and AE port)
CA S1	Calibration adapter for CDN S1
CA S2/S4	Calibration adapter for CDN S2 BNC and CDN S4 BNC
CA S4-USB	Calibration adapter for CDN S4-USB
CA S8-RJ45	Calibration adapter for CDN S8RJ45
CA S9/S15/S25	Calibration adapter for CDN S9, CDN S15 and CDN S25
CA S37	Calibration adapter for CDN S37
Remark:	For CDN S-Type only one calibration adapter is required, for all other types the standard recommends to also terminate the AE port. One piece of calibration adapter is automatically included in the delivery of every Luethi CDN
CA EM	Cal kit. for EM 101 incl. 1ea R-100N, 1ea T-50, 1ea connection cable (requires CWS CAL or additional R-100N) See also "Cable EM/FTC 101" as additional option.
Cable EM/FTC 101	Cable with a length of 1750mm to calibrate an EM 101 together with a FTC 101 (Additional option for item CA EM)
	Decoupling clamps and absorbing clamps to measure disturbance power
MDS 21 B	Absorbing clamp 30 - 1000MHz as per CISPR 16 for automatic operation, including 5m measuring cable, N-connector
FTC 40X15 E	Decoupling clamp, 1 - 1000MHz as per CISPR 16 or CISPR 22
MDS 22	Absorbing clamp 300MHz - 2.5GHz (3GHz) as per CISPR 16
EM 101	RF Injection clamp, (10kHz) 150kHz - 1000MHz, 100W, 4 kV, max. cable diameter 22mm as per IEC 61000-4-6.
FTC 101	Decoupling clamp for EM 101 RF injection clamp
	Dummy Lamps according to CISPR 15 EN55015
LN G23	Socket LN G23 according to figure 4 e CISPR 15, socket length 47 mm, tube sets of the RS G23 / xxx series required.
RS G23 / 85	Tube set for LN G23, max. length of lamp acc. to IEC 85 mm, length of tube 38 mm, Tube diameter 13 mm, 5 W.
RS G23 / 115	Tube set for LN G23, max. length of lamp acc. to IEC 115 mm, length of tube 68 mm, Tube diameter 13 mm, 7 W.
RS G23 / 145	Tube set for LN G23, max. length of lamp acc. to IEC 145 mm, length of tube 98 mm, Tube diameter 13 mm, 9 W.
RS G23 / 215	Tube set for LN G23, max. length of lamp acc. to IEC 215 mm, length of tube 168 mm, Tube diameter 13 mm, 11 W.

	single capped quadruple tube dummy lamps with socket G24
LN G24	Socket LN G24 according to figure 4 f CISPR 15, socket length 45 mm, tube sets of the RS G24 / xxx series required.
RS G24 / 95	Tube set for LN G24, max. length of lamp acc. to IEC 95 mm, length of tube 50 mm, Tube diameter 13 mm, 10 W.
RS G24 / 130	Tube set for LN G24, max. length of lamp acc. to IEC 130 mm, length of tube 85 mm, Tube diameter 13 mm, 13 W.
RS G24 / 150	Tube set for LN G24, max. length of lamp acc. to IEC 150 mm, length of tube 105 mm, Tube diameter 13 mm, 18 W.
RS G24 / 170	Tube set for LN G24, max. length of lamp acc. to IEC 170 mm, length of tube 125 mm, Tube diameter 13 mm, 26 W.
	single capped twin tube dummy lamps with socket 2G11
LN 2G11	Socket LN 2G11 according to figure 4 d CISPR 15, socket length 67 mm, tube sets of the RS 2G11 / xxx series required.
RS 2G11 / 225	Tube set for LN 2G11, max. length of lamp acc. to IEC 225 mm, length of tube 158 mm, Tube diameter 15 mm, 18 W.
RS 2G11 / 320	Tube set for LN 2G11, max. length of lamp acc. to IEC 320 mm, length of tube 253 mm, Tube diameter 15 mm, 24 W.
RS 2G11 / 415	Tube set for LN 2G11, max. length of lamp acc. to IEC 415 mm, length of tube 348 mm, Tube diameter 15 mm, 36 W.
RS 2G11 / 535	Tube set for LN 2G11, max. length of lamp acc. to IEC 535 mm, length of tube 468 mm, Tube diameter 15 mm, 55 W.
	Linear dummy lamps 15 mm diameter with socket G5
LN G5	Pair of sockets LN G5 according to figure 4 c CISPR 15, socket length 20 mm each, tube sets of the RS G5 / xxx series required.
RS G5 / 136	Tube set for LN G5, max. length of lamp acc. to IEC 136 mm, length of tube 96 mm, Tube diameter 15 mm, 4 W.
RS G5 / 212	Tube set for LN G5, max. length of lamp acc. to IEC 212 mm, length of tube 172 mm, Tube diameter 15 mm, 6 W.
RS G5 / 288	Tube set for LN G5, max. length of lamp acc. to IEC 288 mm, length of tube 248 mm, Tube diameter 15 mm, 8 W.
RS G5 / 517	Tube set for LN G5, max. length of lamp acc. to IEC 517 mm, length of tube 477 mm, Tube diameter 15 mm, 13 W.
RS G5 / 549	Tube set for LN G5, max. length of lamp acc. to IEC 549 mm, length of tube 509 mm, Tube diameter 15 mm, 14 W.
RS G5 / 849	Tube set for LN G5, max. length of lamp acc. to IEC 849 mm, length of tube 809 mm, Tube diameter 15 mm, 21 W.
RS G5 / 1449	Tube set for LN G5, max. length of lamp acc. to IEC 1449 mm, length of tube 1409 mm, Tube diameter 15 mm, 35 W.

	Linear dummy lamps 20 mm diameter with socket G13 / 25
LN G13 / 25	Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 25 / xxx series required.
RS G13 / 25 / 438	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 438 mm, length of tube 288 mm, Tube diameter 20 mm, 15 W.
RS G13 / 25 / 590	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 20 mm, 18 W.
RS G13 / 25 / 720	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 720 mm, length of tube 570 mm, Tube diameter 20 mm, 16 W.
RS G13 / 25 / 895	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 895 mm, length of tube 745 mm, Tube diameter 20 mm, 30 W.
RS G13 / 25 / 970	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 20 mm, 36 W.
RS G13 / 25 / 1047	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1047 mm, length of tube 897 mm, Tube diameter 20 mm, 38 W.
RS G13 / 25 / 1200	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 20 mm, 36 W.
RS G13 / 25 / 1500	Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 20 mm, 58 W.
	Linear dummy lamps 28 mm diameter with socket G13 / 38
LN G13 / 38	Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 38 / xxx series required.
RS G13 / 38 / 590	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 28 mm, 20 W.
RS G13 / 38 / 970	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 28 mm, 25 W.
RS G13 / 38 / 1200	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 115 W.
RS G13 / 38 / 1500	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 140 W.
RS G13 / 38 / 1800	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1800 mm, length of tube 1650 mm, Tube diameter 28 mm, 160 W.
RS G13 / 38 / 2400	Tube set for LN G13 / 38, max. length of lamp acc. to IEC 2400 mm, length of tube 2250 mm, Tube diameter 28 mm, 125 W.
	single capped twin tube dummy lamps with socket 2G7
LN 2G7	Socket LN 2G7, socket length 47 mm, tube sets of the RS 2G7 / xxx series required.
RS 2G7 / 85	Tube set for LN 2G7, max. length of lamp acc. to IEC 85 mm, length of tube 38 mm, Tube diameter 13 mm, 5 W.
RS 2G7 / 115	Tube set for LN 2G7, max. length of lamp acc. to IEC 115 mm, length of tube 68 mm, Tube diameter 13 mm, 7 W.
RS 2G7 / 145	Tube set for LN 2G7, max. length of lamp acc. to IEC 145 mm, length of tube 98 mm, Tube diameter 13 mm, 9 W.
RS 2G7 / 215	Tube set for LN 2G7, max. length of lamp acc. to IEC 215 mm, length of tube 168 mm, Tube diameter 13 mm, 11 W.
	U-shape tube dummy lamps with socket 2G13
LN 2G13	Socket LN 2G13, socket length 75 mm, tube sets of the RS 2G13 / xxx series required.
RS 2G13 / 310	Tube set for LN 2G13, max. length of lamp acc. to IEC 310 mm, length of tube 235 mm, Tube diameter 20 mm, 20 W.
RS 2G13 / 607	Tube set for LN 2G13, max. length of lamp acc. to IEC 607 mm, length of tube 532 mm, Tube diameter 20 mm, 40 W.
RS 2G13 / 765	Tube set for LN 2G13, max. length of lamp acc. to IEC 765 mm, length of tube 690 mm, Tube diameter 20 mm, 65 W.

	Circular dummy lamps
LN G10q / 28 / 216	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 216 mm, Tube diameter 20 mm, 22 W.
LN G10q / 32 / 311	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 311 mm, Tube diameter 28 mm, 32 W.
LN G10q / 32 / 413	Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 413 mm, Tube diameter 28 mm, 40 W.
	single pin linear dummy lamps with socket Fa6
LN Fa6	Pair of sockets LN Fa6, socket length 75 mm each, tube sets of the RS Fa6 / xxx series required.
RS Fa6 / 590	Tube set for LN Fa6, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 28 mm, 16 W.
RS Fa6 / 1200	Tube set for LN Fa6, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 32 W.
RS Fa6 / 1500	Tube set for LN Fa6, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 50 W.
	related equipment
Conical cover	Test fixture for energy saving lamps with E27 socket according to figure 7 b CISPR 15
Conical Cover Option E14	Additional adapter E27-E14 to insert E14 lamps into the conical cover.
Conical Cover Option B22d	Additional adapter E27-B22d to insert B22d lamps (common in Great Britain) into the conical cover.