



	Antennas	09/2022
	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 / $200~\Omega$, (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-N	High power antenna holder / balun with N-connector, 50:200 Ohm, 2.5 kW for lower frequency range or limited by N-connector for upper frequency range, 20-200 MHz for biconical or collapsible elements.	
VHBD 9134-7/16	High power antenna holder / balun with 7/16-connector, 50:200 Ohm, 2.5 kW, 20-200 MHz for biconical or collapsible elements.	
VHBD 9134-4	4 kW high power antenna holder / balun 50:200 Ω , 20-200 MHz for BBAL 9136 or BBFA 9146, 7/16-female connector.	
VHBD 9134-10	High power antenna balun 50:200 Ohm, 20-200 MHz, for BBAL 9136 or BBFA 9146, with 13-30 female connector. Max. input power is limited to: Pmax = 10 kW @ 20-30 MHz Pmax= 8 kW @ 50 MHz Pmax = 6 kW @ 100 MHz Pmax = 4 kW @ 200 MHz	
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, 30-1000 MHz broad band (like UBA), for UBAA 9114/9115	
BBUK 9139 M4	Biconical Elements, LE=33 cm, for EFS 9218 (9 kHz-300 MHz), SBA 9113 B (80-1000 MHz), SBA 9113 (500-1000 MHz)	
	Collapsible or open Biconical Elements, booster coils	
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. Balun must be equipped with "HOLDER SHORT"!	

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 cause torque in	
	horizontal polarisation to the fixture at the balun. HOLDER SHORT ab-	
BBFA 9146	sorbs the torque caused by BBAE 9179 in horizontal polarisation.	
	Large collapsible aluminium 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 BBOC 9217	Open Conical Elements, 160-1200 MHz broad band, for UBAA 9114/9115	
	Open Conical Elements, (30)100-1000 MHz broad band, for UBAA 9114/9115	
BCOI 9180 5W	Set of pluggable 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 fre-	
	quency range remarkably. If the coils are used with BBAE 9179 the balun	
	must be equipped with additional torque absorbing plastic fixation bar	
	(holder long). (Also available: 4 turns =4W, 3 turns =3W, 2 turns =2W)	
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 assem-	
	bled to the balun to use BBAE 9179 with booster coils.	
	Logarithmic Periodic Broadband Antennas	
UHALP 9108 A	LogPeriodic Antenna, alum. Tubing, 250 – 2400 MHz, low loss, 1 kW	
VUSLP 9111-1000	power LogPer. Antenna, aluminium tubing, 1000 – 3000 (4000) MHz, low loss,	
VU3EF 9111-1000	1 kW.	
VUSLP 9111-400	LogPeriodic Antenna, alum. Tubing, 400 - 3000 (4000) MHz, low loss, 1 kW.	
VUSLP 9111	LogPeriodic Antenna, alum. Tubing, 200 – 2300 (4000) MHz, low loss, 1 kW power	
VUSLP 9111 B	LogPeriodic Antenna, alum. Tubing, (180) 200 - 3000 (4000) MHz, low loss,1 kW power	
VUSLP 9111 E	LogPer. Antenna, aluminium tubing, 1 kW power, 70 (65)-3000 (4000)	
\(\(\)	MHz. Recommended adapter: KG 9201. EN 61000-4-3	
VUSLP 9111 F	LogPer. Antenna, aluminium tubing, dismountable, (75) 80 MHz - 3 (4) GHz. Recommended adapter: KG 9201.	
CCA 9111 F	Case for VUSLP 9111 F. 4 elements must be unscrewed and the fastlinks	
	must be removed. All parts then fit in this aluminum case 83.5x73x20cm.	
	Assembly time: less than 5 Minutes. Suitable Torx screw driver in the	
VULP 9118 A	case. LogPer. Antenna, aluminium tubing, 1 kW power, 180 -1500 (2000) MHz	
VULP 9118 B	LogPer. Antenna, aluminium tubing, 1 kW power, 160-1500 (2000) MHz	
VULP 9118 C	LogPer. Antenna, aluminium tubing, 1 kW power, 100-1300 (2000) MHz	
VULP 9118 C spe-	LogPer. Antenna, aluminium tubing, 1 kW power, 100-1400 (2000) MHz.	
cial	Nearly identical gain as VULP 9118 C but with reduced width. Spe-	
	cial=folded longest elements.	
VULP 9118 D	LogPer. Antenna, aluminium tubing, 1 kW power, (80) 95 -1500 (1800)	
	1 Log. 1 cl. 7 literina, alaminam tabing, 1 kw power, (00) 50 1000 (1000)	

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VULP 9118 D spe-	LogPer. Antenna, aluminium tubing, 1 kW power, (80) 95 -1500 (1800)	
cial	MHz. Nearly identical gain as VULP 9118 D but with reduced width.	
	Special = folded longest elements.	
VULP 9118 D HP	LogPer. Antenna, aluminium tubing, high power with 7/16connector,	
	(80) 95 -1500 (1800) MHz	
VULP 9118 D HP	LogPer. Antenna, aluminium tubing, high power with 7/16connector,	
sp	(80) 95 -1500 (1800) MHz, nearly identical gain as VULP 9118 E High	
	Power but with reduced width. Special = folded longest elements.	
VULP 9118 E	LogPer. Antenna, aluminium tubing, 1 kW power, 75 (50)-1500 MHz.	
VULP 9118 E spe-	LogPer. Antenna, aluminium tubing, 1 kW power, 75 (50)-1500 MHz.	
cial	Nearly identical gain as VULP 9118 E but with reduced width.	
	Special=folded longest elements.	
VULP 9118 E High	LogPer. Antenna, aluminium tubing, high power, 7/16-connector,	
Power	75 (50)-1500 MHz.	
VULP 9118 E HP	LogPer. Antenna, aluminium tubing, high power, 7/16-connector,	
sp	75 (50)-1500 MHz. Nearly identical gain as VULP 9118 E HP but with	
=	reduced width. Special=folded longest elements.	
VULP 9118 F	LogPer. Antenna, al. tubing, end discs, 1 kW power, 55 -1800 MHz	
VULP 9118 G	LogPer. Antenna, al. tubing, end discs, 1 kW power, 45 -1500 MHz	
VULP 9118 G spe-	LogPer. Antenna, al. tubing, end discs, 1 kW power, 45 -1500 MHz.	
cial	Nearly identical gain as VULP 9118 G but with reduced width.	
	Special=folded longest elements.	
VULP 9118 H	LogPer. Antenna, aluminium 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	
9118 H		
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 LogPer. Antenna, 800 MHz – 3(5) GHz, 50 W	
XSLP 9143	Dual Polarized UHF-SHF LogPer. Antenna, 300 MHz – 3(5.5) GHz, 50	
	W	
	Stacked Logarithmic Periodic Broadband Antennas	
STLP 9128 C-N	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power, (150) 200 - 1500 (4000) MHz, N-connector max. power 1 kW for	
	lower frequency range or limited by N-connector for higher frequency	
	range.	
STLP 9128 C-7/16	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power, (150) 200 - 1500 (4000) MHz, 7/16-connector max. power 2 kW	
	for lower frequency range or limited by 7/16-connector for higher frequen-	
	cy range.	
STLP 9128 C-13/30	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power, (150) 200 - 1500 (4000) MHz, with 13-30-connector limited to	
	2500 MHz but higher power up to 8 kW including adapter similar to AA	
	9202.	

STLP 9128 D-N	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power,	
	80 -3000 (4000) MHz, max. power 1 kW in the lower frequency range,	
	power limited by N-connector in the higher frequency range, fastlinks for	
	quick removal of the rear parts of the antenna. Recommended Adapter:	
	AA 9209	
STLP 9128 D-7/16	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power,	
	80 -3000 (4000) MHz, max. power 2 kW in the lower frequency range,	
	power limited by 7/16-connector in the higher frequency range, fastlinks	
	for quick removal of the rear parts of the antenna. Recommended Adapt-	
CTI D 0400 D am N	er: AA 9209	
STLP 9128 D sp-N	Like STLP 9128 D but with folded longest elements and smaller structure	
	angle, N-connector, fastlinks for quick removal of the rear parts of the	
CTI D 0400 D am	antenna. Antenna diameter < 150 cm. Recommended Adapter: AA 9209.	
STLP 9128 D sp- 7/16	Like STLP 9128 D but with folded longest elements and smaller structure angle, 7/16-connector, fastlinks for quick removal of the rear parts of the	
//10	antenna. Antenna diameter < 150 cm. Recommended Adapter: AA 9209.	
STLP 9128 E-N	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
31LF 9120 E-N	power, (65) 80 -1500 (3000) MHz, N-connector, max power in the lower	
	frequency range 1 kW, in the upper frequency range limited by N-	
	connector, fastlinks for quick removal of the rear parts of the antenna.	
	Recommended Adapter: AA 9209	
STLP 9128 E-7/16	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
0121 01202 1710	power, (65) 80 -1500 (3000) MHz, 7/16-connector, max power in the low-	
	er frequency range 2 kW, in the upper frequency range limited by 7/16-	
	connector, fastlinks for quick removal of the rear parts of the antenna.	
	Recommended Adapter: AA 9209	
STLP 9128 E sp-N	Like STLP 9128 E but with folded longest elements and smaller structure	
	angle. N-connector, antenna diameter < 150 cm. Fastlinks for quick re-	
	moval of the rear parts of the antenna. Recommended Adapter: AA 9209	
STLP 9128 E sp-	Like STLP 9128 E but with folded longest elements and smaller structure	
7/16	angle. 7/16-connector, antenna diameter < 150 cm. Fastlinks for quick	
	removal of the rear parts of the antenna. Recommended Adapter: AA	
	9209	
STLP 9128 F-N	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, high	
	power, 70-1500 (3000) MHz, N-connector, max power in the lower fre-	
	quency range 1 kW, in the upper frequency range limited by N-connector,	
	fastlinks for quick removal of the rear parts of the antenna. Recommend-	
	ed Adapter: AA 9209	
STLP 9128 F-7/16	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, high	
	power, 70 -1500 (3000) MHz, 7/16-connector, max power in the lower	
	frequency range 2 kW, in the upper frequency range limited by 7/16-	
	connector, fastlinks for quick removal of the rear parts of the antenna.	
CTI D 0400	Recommended Adapter: AA 9209	
STLP 9129	Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. Tubing, (70) 80 -9000 (10500) MHz, N-connector, fastlinks for quick removal of	
	the rear parts of the antenna, tip with radome. Recommended Adapter:	
	AA 9209. Ideal for IEC 61000-4-3.	
	AA 3203. IUGAI IUI ILO 0 1000-4-3.	

STLP 9129 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, (70) 80 - 7500 MHz, 7/16-connector, fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. Max. power: 1400W @ 500 MHz, 950 W @ 1000 MHz, 380 W @ 5000 MHz Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. Max. power: 1400W @ 500 MHz, 950 W @ 1000 MHz, 380 W @ 5000 MHz Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
for IEC 61000-4-3. Max. power: 1400W @ 500 MHz, 950 W @ 1000 MHz, 380 W @ 5000 MHz Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
Max. power: 1400W @ 500 MHz, 950 W @ 1000 MHz, 380 W @ 5000 MHz Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp T/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
MHz Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
Frequency range limited by large connector to ca. 7.5 GHz STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp The special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
STLP 9129 special Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with ra- dome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
9000 (10500) MHz, N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
Fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
dome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
STLP 9129 sp 7/16 Stacked double LogPer. Antenna, typ. gain: 9 dBi, alum. tubing, 80 - 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
7/16 7500 MHz, 7/16-connector, antenna diameter < 150 cm.	
Fastlinks for quick removal of the rear parts of the antenna, tip with ra-	
dome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3.	
Max. power:	
4 kW @ 80 MHz	
1,5 kW @ 400 MHz	
0,95 kW @ 1000 MHz	
0,5 kW @ 2500 MHz	
0,3 kW @ 6000 MHz	
Frequency range limited by large connector to ca. 7.5 GHz STLP 9148 Stacked double LogPer. Antenna, typ. gain: 9 dBi (0.7) 1 – 18 (20) GHz,	
N-connector	
STLP 9149 Stacked double LogPer. Antenna for IEC 61000-4-3 typ. gain 10.3 dBi,	
(0,6) 0,7 – 9 (10,5) GHz, N-connector female.	
STLP 9149-7/16 Stacked double LogPer. Antenna for IEC 61000-4-3 typ. gain 10.3 dBi,	
(0,6) 0,7 – 7.5 GHz, 7/16-connector female. 950 Watt @1 GHz, 380 Watt	
@ 5 GHz	
Biconic Logarithmic Periodic Antennas (Hybrid)	
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 9164 TRILOG Super broad band antenna, (25) 30- 3000 (4000) MHz, gain at	
80 MHz optimized.	
VULB 9168 TRILOG Super Broadb. Test Antenna, (25) 30-1000 (2000) MHz, 10 W,	
reduced width, diameter < 1.5 m.	
VULX 9163 Dual Linear polarized Logarithmic Periodic Broadband Antenna (140) 150 - 1500 (2500) MHz.	
Biconical Antennas	
SBA 9113 B Small Biconical Antenna 80 MHz – 3 GHz for harmonics measurements acc. to IEC61000-4-3.	
SBA 9113 B Mini Small biconical antenna 80 MHz – 3 GHz to measure harmonics acc.	
Version IEC61000-4-3. Tube shortened to LH=200 mm. The antenna can be	
used under space restrictions e.g. for Ford RI115.	
SBA 9113 Small biconical microwave antenna 0.5 – 3 GHz, 20 W. CISPR 16-1-4	
Site evaluation above 1 GHz	
SBA 9113 Mini- Small biconical microwave antenna 0.5 – 3 GHz, 20 W. Not for CISPR	
Version 16-1-4 Site evaluation above 1 GHz because of the short tube!	
SBA 9112 Small biconical microwave antenna (1) 3 – 18 GHz, 10 W including	
transport case. CISPR 16-1-4 Site evaluation above 1 GHz	

SBA 9112 Mini-	Small biconical microwave antenna (1) 3 – 18 GHz, 10 W including	I
Version	transport case. Not applicable for CISPR 16-1-4 Site evaluation above 1	
VC131011	GHz because of the short tube.	
SBA 9119	Small biconical microwave antenna 1 – 6 GHz, 20 W. CISPR 16-1-4 Site	
	evaluation above 1 GHz including transport case.	
SBA 9119 mini	Small biconical microwave antenna 1 – 6 GHz, shorter tube with	
	LH=200mm, 20 W, 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	
011A 3123 C	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.	
ILS Dipole	Linear polarized half-wave dipole with 1:1 balun and fixed element length	
	for fieldstrength measurements at instrument landing systems (ILS) 108 -	
221 !! 2	118 MHz and 320 - 340 MHz.	
CCA ILS	Transport and storage case made of aluminum for ILS Dipole	
TETRA-Dipole	Linear polarized half-wave dipole with 1:1 balun and fixed element length	
	for measurements at TETRA (terrestrical trunked radio) networks 340 - 480 MHz	
	Precision Dipoles	
VHAP	VHF Precision Dipole 30-300 MHz, 2 sets of telescopic elements (mostly	
VIIAF	required in pairs) CISPR 16-1-5.	
UHAP	UHF Precision Dipole 300-1000 MHz (VHAP & UHAP mostly required in	
3 11111	pairs) CISPR 16-1-5	
CCA VHAPUHAP	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	
RSH 113	Omni directional horizontally polarised VHF antenna 108-118 MHz, 100 W	
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)	
DE 4500	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, omnidi-	
11.5 0400	rectional in the H-plane.	
CCA RS 0460	Transport case for RS 0460.	
2 0.1.1.0 0 100	Broadband Horn Antennas	
BBHA 9120 A	Broad-Band Horn Antenna (0.8) 1 – 5 (10) GHz, N-connector	
DDIIA 3120 A	Dioau-Danu Horn Antenna (0.0) 1 – 3 (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-N	Broad-Band Horn Antenna 0.2 – 2 GHz, N-connector	
BBHA 9120 F-7/16	Broad-Band Horn Antenna 0.2 – 2 GHz, 7/16-connector	
BBHA 9120 G	Broad-Band Horn Antenna 0.4 – 2.8 GHz, 7/16-connector	
BBHA 9120 J	Broadband horn antenna optimized for the gain in 1 m distance from 800	
	MHz to 6.2 GHz. Especially optimized for automotive immunity. Power	
	limited by the N-connector. The N-connector can withstand ca. 400 Watt	
DDIIA 0400 17/40	at 4 GHz.	
BBHA 9120 J-7/16	Broadband horn antenna optimized for the gain in 1 m distance from 800 MHz to 6.2 GHz. Especially optimized for automotive immunity. Power	
	limited by the 7/16-connector. The 7/16-connector can withstand ca. 800	
	Watt at 4 GHz.	
BBHA 9120 K	Horn antenna 400 MHz - 1.6 GHz optimized for GM/Ford/Toyota radar	
221111012011	testing lower band. Optimized for maximum gain in 1 m distance. Under	
	free space conditions 600V/m using a 250 W amplifier in the range 1.2-	
	1.4 GHz can be reached. N-connector	
BBHA 9120 K 7/16	Horn antenna 400 MHz - 1.6 GHz optimized for GM/Ford/Toyota radar	
	testing lower band. Optimized for maximum gain in 1 m distance. Free	
	space conditions 600V/m using a 250 W amplifier in the range 1.2-1.4	
	GHz can be reached. 7/16" connector.	
BBHA 9120 LF	Broad-Band Horn Antenna 0.7 – 6 GHz, N-connector	
BBHA 9120 L	Broad-Band Horn Antenna 3 - 40 GHz, 2.92 mm connector, optimized for	
	wide beamwidth.	
BBHA 9170	Broad-Band Horn Antenna 15 – 26.5 (40) GHz, SMA-compatible con-	
114 0050 40	nector	
HA 9250-12	Pyramidal standard gain horn Antenna, 1-2 GHz, 7/16-connector, 20 dBi,	
HA 9250-24	optimized for far field gain. Pyramidal standard gain horn Antenna, 2 – 4 GHz, 7/16-connector, 20	
ПА 9250-24	dBi, optimized for far field gain.	
HA 9250-48	Pyramidal standard gain horn Antenna, 4 – 8 GHz, N-connector, 22mm-	
11A 3200 40	tube, 20 dBi, optimized for far field gain. (Alternative fixture available:	
	3/8"-thread and M10 thread in center of gravity replaces 22mm-tube,	
	alternative connector available: 7/16 replaces N)	
HA 9250-818	Pyramidal standard gain horn Antenna, 8 – 18 GHz, N-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, N-connector, 22mm-	
	tube, 19 dBi, optimized for the gain in 1 m distance. (Alternative fixture	
	available: 3/8"-thread and M10 thread in center of gravity replaces 22mm-	
HA 9251-818	tube, alternative connector available: 7/16 replaces N) Pyramidal standard gain horn Antenna, 8 – 18 GHz, N-connector, 18 dBi,	
11A 34J1-010	optimized for the gain in 1 m distance.	
HWRD650	Double ridge horn antenna 6.5-18 GHz with waveguide flange WRD650	
	D28. Gain 16-21 dBi, 1 kW, especially to generate very high field	
	strengths.	
NWRD650	Adapter WRD650 to coaxial N-female. (Not required if the antenna is	
	directly fixed to the amplifier rack using the WRD650 flange.)	
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TWRD650	Option for HWRD650: 22 mm tube with indexing ring. (Not required if the	
	antenna is directly fixed to the amplifier rack using the WRD650 flange.)	
HWRD750	Double ridge horn antenna 7.5-18 GHz with waveguide flange WRD750.	
	Gain 16-21 dBi, 1 kW, especially to generate very high field strengths.	
NWRD750	Adapter WRD750 to coaxial N-female. (Not required if the antenna is	
	directly fixed to the amplifier rack using the WRD750 flange.)	
TWRD750	Option for HWRD750: 22 mm tube with indexing ring. (Not required if the	
	antenna is directly fixed to the amplifier rack using the WRD750 flange.)	
TEMH 6000	TEM Horn antenna acc. to IEC 61000-4-39, 380-6000 MHz	
Spacer 100	Spacer for TEMH 6000. Test distance 100 mm.	
	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.	
	Active Antennas	
VAMP 9243 B	Vertical active rod antenna, 9 kHz - 30 MHz, BNC, reduced noise floor,	
	additional ESD-protection in switched-off-state, with mounting nut for AM	
	9144 and rechargeable battery.	
GP f. 9243	Accessory for VAMP 9243 or VAMP 9243 B: Aluminium-Groundplane, 0.6 x 0.6 m	
GP f. 9243 Foldab-	Accessory for VAMP 9243 or VAMP 9243 B: aluminium-Groundplane, 0.6	
le	x 0.6 m, foldable in half for easier transportation.	
GP f. 9243 60x140	Accessory for VAMP 9243 or VAMP 9243 B: Aluminium-Groundplane, 1.4	
	x 0.6 m.	
ACS 110 f. VAMP	Accessory for VAMD 0242 or VAMD 0242 Dr Charger ACC 440	
9243	Accessory for VAMP 9243 or VAMP 9243 B: Charger ACS 110	
VT 9243 B	Accessory for VAMP 9243 or VAMP 9243 B: 20 dB plug in divider to	
	measure high field strength.	
CA 9243 B	Calibration Adapter for VAMP 9243 and VAMP 9243 B	
MIL461F bonding	Bonding kit for VAMP 9243 acc. MIL-STD-461F consisting of a BNC ca-	
kit	ble double shielded ca. 70 cm, with braid current blocking ferrite in the	
	center, elbow aluminium 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	
BBUK 9139 M4	Biconical Elements, 30-1000 MHz for EFS 9218	
ACS 110	Option: Automatic charger ACS 110 for EFS 9218	
	Field probes	
FSH3D	Isotropic H-Field Antenna for the Rohde und Schwarz handheld spectrum	
	analyser 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 in-	
	cluded short cable that can directly be connected to the R&S FSH.	

FSHPH FSHPE	Isotropic E-field antenna for the Rohde und Schwarz handheld spectrum analyser FSH or the TS-EMF System (25) 30 MHz - 3 GHz. Light weight low attenuation radome, 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. Passive H-Field probe for handheld spectrum analysers to measure large magnetic fields to analyse health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236. Passive E-field probe for handheld spectrum analysers to measure large	
	electric fields to analyse health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236.	
	Automotive antennas	
NMHA 6M	Nissan Specification 28401NDS02 [6]antenna set Immunity to handy transmitters and RENAULT antenna set Immunity to handy transmitters acc. 36-00-808/M (Combined Set) consisting of: NMHA 26, NMHA 28, NMHA 30, NMHA 40, NMHA 52, NMHA 75, NMHA 125, NMHA 145, NMHA 155, NMHA 165, NMHA 174, NMHA 190, NMHA 223, NMHA 350, SBA 9113 without original biconical elements, 420 NJ flat elements, Spacer 50, counterpoise for NMHA antennas and case.	
NMHA 6M reduced	Nissan Specification 28401NDS02 [6]antenna set Immunity to handy transmit-ters and RENAULT antenna set Immunity to handy transmitters acc. 36-00-808/M (Combined Set) consisting of: NMHA 26, NMHA 28, NMHA 30, NMHA 40, NMHA 52, NMHA 75, NMHA 125, NMHA 145, NMHA 155, NMHA 165, NMHA 174, NMHA 190, NMHA 223, NMHA 350, counterpoise for NMHA antennas and case.	
VW TL 82166 2016-02	Antenna set according to Volkswagen Specification VW TL 82166:2016-02 "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, SBA 9119 mini version total length of the balun LH=20 cm without the small original biconical elements. 422 NJ, Spacer 30, VW metal case large with short 22 mm tube, VW metal case small withshort 22 mm tube, MSS 9630, AD Nm BNCf, AD Nm Nm, Case for all parts CCA VW 2016	
420 NJ	Elements for radiated immunity caused by handy transmitters with SBA 9113 or SBA 9113 mini version for the Ford standard RI115.	
Spacer 50 for 420 NJ	Spacer for 420 NJ. Test distance 50 mm.	
422 NJ	Elements for radiated immunity caused by handy transmitters for SBA 9119.	
Spacer 30 for 422 NJ	Spacer for 422 NJ. Test distance 30 mm.	
RS 9244	Radiating source for CISPR 25, consisting of a 500 mm brass rod with 4 mm diameter and 2 aluminum angles with N-connectors.	
NMHB 4MM	Balun 20-420 MHz to hold FDAI Folded Dipole Elements via 4 mm element fixtures. For immunity tests of components against handheld transmitters acc. ISO 11452-9, stable VSWR.	
FDAI 146	Folded dipole antenna radiating element for 146 MHz (142-150 MHz) acc. ISO 11452-9, Balun NMHB 4MM required.	
FDAI 155	FDAI 155 Folded dipole antenna radiating element for 155 MHz (151-161 MHz) acc. ISO 11452-9, Balun NMHB 4MM required.	

	Helical antennas	
Opt. TLD 9241	Top loading disc for VPMP 9241 diameter < 12 cm.	
VPMP 9241	Monopole acc. to CISPR 25 passive, 2 N-connectors, element fixture for rod, rod, aluminum housing and groundplane.	
VDMD 0044	Passive Rod Antenna Menopole and to CISDR 25 pageing 2 N connectors, element fixture for	
	VSWR = 1.5 or better at 1950 MHz.	
TSA 1950	Tuned sleeve antenna for Toyota TSC7006G,	
TSA 1750	Tuned sleeve antenna 1.14-2.0 GHz acc. ISO 11452-9 B.3	
TSA 1440	Tuned sleeve antenna 1440-1453 MHz acc. ISO 11452-9 B.3	
TSA 1270	Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 1270 MHz.	
	900 MHz.	
TSA 900	Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at	
TSA 880	Tuned sleeve antenna 806-958 MHz acc. ISO 11452-9 B.3	
TSA 835	Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 835 MHz.	
TSA 455	Tuned sleeve antenna 437-470 MHz acc. ISO 11452-9 B.3	
TSA 430	Tuned sleeve antenna for Toyota TSC7006G or ISO 11452-9 B.3, 425-435 MHz	
TSA 415	Tuned sleeve antenna 407-423 MHz acc. ISO 11452-9 B.3	
TSA 400	Tuned sleeve antenna 387-419 MHz acc. ISO 11452-9 B.3	
TSA 385	Tuned sleeve antenna 373-397 MHz acc. ISO 11452-9 B.3	
PCD 2440	Antenna for IMMUNITY TO ON-BORD TRANSMITTERS (PSA EQ/IR 05, ISO 11452-9 B.4.4) for bluetooth band (2402 – 2480 MHz)	
HLC 170	Helical antenna with top cone & housing according to ISO 11452-9 B.4.7, 168-173 MHz.	
HLC 146	Helical antenna with top cone & housing according to ISO 11452-9 B.4.6, 144-148 MHz.	
HLC 27	Helical T-antenna with housing according to ISO 11452-9 B4.5, 26.96-27.4 MHz.	
FAN 450	Symmetrically folded antenna w. housing 430-470 MHz according to ISO 11452-9 B4.9	
FAN 405	Symmetrically folded antenna w. housing 380-430 MHz according to ISO 11452-9 B.4.8	
EGG 1860	Antenna for IMMUNITY TO ON-BORD TRANSMITTERS (PSA EQ/IR 05, ISO 11452-9 B4.3.3) for GSM 1800, UMTS, GSM 1900 and PDC 1500 bands (1710-2025 MHz).	
F00 4000	ISO 11452-9 B.4.2) for GSM 900, GSM 850 and PDC 800 bands (890- 915 MHz)	
EGG 900	Antenna for IMMUNITY TO ON-BORD TRANSMITTERS (PSA EQ/IR 05,	
	FDAI 155, FDAI 165, FDAI 174, FDAI 222 dipole elements, CCA FDAI transport case.	
FDAI Set	Folded Dipole antenna's set for ISO 11452-9, stable VSWR. Consisting of: NMHB 4MM Balun 20-420 MHz to hold FDAI elements, FDAI 146,	
CCA FDAI	Carrying and storing case for NMHB 4MM and 5 x FDAI elements (FDAI 146, 155, 165, 174, 222).	
	MHz) acc. ISO 11452-9, Balun NMHB 4MM required.	
FDAI 222	MHz) acc. ISO 11452-9, Balun NMHB 4MM required. FDAI 222 Folded dipole antenna radiating element for 222 MHz (215-246	
FDAI 174	FDAI 174 Folded dipole antenna radiating element for 174 MHz (172-180	
	MHz) acc. ISO 11452-9, Balun NMHB 4MM required.	
FDAI 165	FDAI 165 Folded dipole antenna radiating element for 165 MHz (162-174	

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.	
Opt. 0110 Radome	Radome for CLSA 0110 L/R	
	Magnetic Antennas, TX-Loop Antennas	
HFRA 5146	Circular shielded transmitting loop antenna 9 kHz – 30 MHz, diameter 300 mm, for IEEE 299-2006 and MIL 285. Banana connectors for 9 - 200 kHz	
	and N-connector for 15 MHz.	
HFRA 5148	Circular transmitting loop antenna diam. 180 mm, 1 turn	
HFRA 5149	Circular transmitting loop antenna 9 kHz - 30 MHz, diam. 500 mm includ-	
	ing 50 Ohm 20 Watt termination, N-connectors.	
HFRA 5149-60	Circular transmitting loop antenna 9 kHz – 30 MHz, diam. 600 mm includ-	
	ing 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. 100 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 5164	Circular Transmitting Loop Antenna, for IEC 61000-4-39, shielded, diameter 10 cm, 3 turns, wire diameter 1mm, frequency range: DC to 50(120) MHz. Including HFRA-Spacer50 for test distance of 50 mm.	
NFCN 1356	Compensation network for the HFRA 5164, to be used at the frequency of 13.56 MHz. Must be connected directly at the HFRA 5164 connector.	
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 – 400 MHz, 1 turn, transformer, diam. 50 mm	
Cable loop EN 303417	Collapsible cable-loop-antenna as described in Fig. 12 of EN 303417. Maximum field in the antenna's center: 100 dBuA/m (0.1 A/m).	
	CISPR 15 3-dimensional loop antenna van Veen	
	Jie	

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	
Opt. fold HXYZ	Option foldable for HXYZ 9170: The joints of the base version of HXYZ	
9170	are stiff. The option foldable replaces the stiff joints which have to be	
	removed by screws by rotatable connections. Only one locking pin per	
	joint has to be removed to collapse the antenna. The socket will addition-	
	ally be equipped with wheels. This option allows to park the antenna fold-	
	ed close to a wall and to set it up in less than 5 minutes.	
Coaxial Switch for	3 in one coaxial switch for manual / remote operation including cable set	
HXYZ 9170	(3 BNC cables with braid current blockers) for large loop HXYZ 9170	
PS 230/12	12 V DC ultra low emission trafo wall outlet plug in power supply for Co-	
or	axial Switch of HXYZ 9170, not required in case of manual switching or if	
PS 120/12	switched remotely by a Schwarzbeck receiver or by an R&S receiver with	
	12V/100mA on pin 25 of the USER-Port. Is required in all other cases e.g.	
	for R&S receivers with AUX Port or with USER-Port without 12V/100mA	
	on Pin 25.	
HXYZ 9170-RS	HXYZ 9170-RS USER Adapter for remote control of the HXYZ 9170 Co-	7
USER Ad	axial Switch by an R&S receiver with USER Port. 12 V Power Supply for	
	Coaxial Switch eventually required!	
HXYZ 9170-RS	HXYZ 9170-RS AUX Adapter for remote control of the HXYZ 9170 Coax-	
AUX Ad.	ial Switch by an R&S receiver with AUX Port. 12 V Power Supply for Co-	
	axial Switch required!	
HFCD 9171	Calibration Balun / Dipole for HXYZ 9170 (recommended accessory: AM	
OD 4 007;	9144)	
CDA 9271	Adapter to hold HFCD 9171 on AM 9144, 3/8" female large camera thread.	
EMZD 4540 D	Active Loop Antennas / Magnetic Field Probes	
FMZB 1513 B	Active magnetic loop antenna, acc. to CISPR 16-1-4 and ANSI C 63.10, 9	
	kHz to 30 MHz, 50 cm loop diameter, constant antenna factor 20 dB/m,	
	with built in rechargeable NiMH-battery, saturation indicator for remote	
ACS 110	monitoring, detachable glass fiber handle 180 mm. Optimized for mobility. Option: Charger ACS 110 for FMZB 1513.	
CCA 1513	Transport case for FMZB 1513 of FMZB 1513 B and accessories.	
500 mm Handle	Accessory for FMZB 1513: Additional glass fiber handle of 500 mm	
Joo IIIII Hallule	length.	
22mm tube 3/8	Short 22 mm tube (ca. 120 mm) with 3/8-inch thread male on top. Can be	
	screwed into the bottom of FMZB 1513. Using this part FMZB 1513 can	
	be held by AA 9202 or AA 9203 in different orientations.	
1513 Stand	Holder or stand to put FMZB 1513 on a table.	
FMZB 1513-60 B	Active magnetic loop antenna, acc. to CISPR 16-1-4 and ANSI C 63.10, 9	
	kHz to 30 MHz, 60 cm loop diameter, constant antenna factor 20 dB/m +/-	
	1.0 dB, built in rechargeable NiMH-battery, saturation indicator for remote	
	monitoring. Detachable glass fibre handle 180 mm. Optimized for mobili-	
	ty.	
ACS 110	Option: Charger ACS 110 for FMZB 1513.	
CCA 1513-60	Transport case for FMZB 1513-60 or FMZB 1513-60 B and accessories.	
500 mm Handle	Accessory for FMZB 1513: Additional glass fiber handle of 500 mm	
	length.	
22mm tube 3/8	Short 22 mm tube (ca. 120 mm) with 3/8-inch thread male on top. Can be	
	screwed into the bottom of FMZB 1513. Using this part FMZB 1513 can	
	be held by AA 9202 or AA 9203 in different orientations.	
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1513 Stand	Holder or stand to put FMZB 1513 on a table.	
FMZB 1519 C	Active magnetic loop antenna, acc. to CISPR 16-1-4 and ANSI C 63.10, 9	
	kHz to 30 MHz, 50 cm loop diameter, constant antenna factor 20 dB/m,	
	built in rechargeable NiMH-battery and saturation indicator for remote	
	monitoring.	
ACS 110	Option: ACS 110 charger for FMZB 1519 B	
HFS 1546	Active magnetic Field Probe with shielded 50-mm-Loop, 150 kHz – 400	
	MHz	
ACS 110	Option: ACS 110 charger for HFS 1546	
FMZB 1512	Active magnetic loop antenna with 15 cm loop diameter for mobile appli-	
	cations with built in rechargeable batteries, 9 kHz to 30 MHz, antenna	
	factor adjustable.	
ACS 48	Option: ACS 48 charger for FMZB 1512	
FMZB 1525	Active shielded magnetic loop antenna 9 kHz - 30 MHz, diameter 300	
	mm, for IEEE 299-2006 and MIL-STD-285. N-connector, 22 mm tube.	
ACS 48	Option: ACS 48 charger for FMZB 1525	
HHDF 5110 A	Hand held direction finder lightweight loop-antenna. Frequency range: 9	
	kHz-30 MHz. N-female connector.	
HHDF 5110 B	Hand held direction finder lightweight loop-antenna. Frequency range: 30-	
	300 MHz. N-female connector.	
HHDF 5110 C	Hand held direction finder lightweight loop-antenna. Frequency range:	
IIIDE Handla	200-500 MHz. N-female connector.	
HHDF Handle	Handle for HHDF antennas.	
	Helmholtz coils, electro magnets, audio amplifiers	
MagTest	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.	
LFPA 9733 B	Universal audio frequency power amplifier 5 Hz - 1 MHz for magnetic field	
LI 1 A 3/33 B	immunity testing, 60 V peak, 40 A peak, protected against short at the	
	output or overtemperature. Gain compression in case of overload, GPIB	
	interface. A minimum load of 0.25 Ohm at the output must be connected	
	in series with the coil, e.g. SHUNT 9571 or NFCN 9734.	
NFCN 9734	Universal matching network with built in shunt resistor to compensate for	
	the inductance of Helmholtz coils, GPIB or RS232 controllable.	
SHUNT 9571	Low inductive high power precision shunt resistor DC-250 kHz,	
	2 x 0,5 Ohm / 400 W, 1 x 1 Ohm / 800 W, 1 x 250 mOhm / 800 W re-	
	spectively for best matching at low frequencies, cooling fans. Note: If you	
	order the compensation network NFCN 9734 an additional shunt is not	
CD 0040	required as the network already contains a shunt.	
CP 9610	Current probe to monitor current through radiating loop or Helmholtz coils. Can be used to measure currents in case a shunt is not allowed (Ford	
	EMC-CS-2009), including 1m RG223/U BNC-BNC.	
CABLES MagTest		
OADLLO Magrest	MagTest System.	
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 5202-9	Helmholtz Coils, circular, diam. 200 mm, 3053 A/m 2,5 MHz acc. MIL-	
	STD 461E	
HHS 5202-81	Helmholtz Coils, circular, diam. 200 mm, 3000 A/m 300 kHz acc. MIL-	
- 	STD 461E	

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 5204-144	Circular pair of Helmholtz coils, diameter 400 mm, up to 10 kA/m, max. current 20 A.	
HHS 5206-4	Circular pair of Helmholtz coils, diameter 600 mm, 4 turns.	
HHS 5206-8	Circular pair of Helmholtz coils, diameter 600 mm, 8 turns.	
HHS 5206-16	Circular pair of Helmholtz coils, diameter 600 mm, up to 2100 A/m, max. current 55 A.	
HHS 5206-25	Circular pair of Helmholtz coils, diameter 600 mm, up to 2700 A/m, max. current 46 A.	
HHS 5206-132	Circular pair of Helmholtz coils, diameter 600 mm, up to 4713 A/m, max. current 15 A.	
FESP 5410-1	1 x 1 meter induction coil, 1 turn, to produce continuous magnetic fields up to 360 A/m, short time more than 1000 A/m. For IEC 61000-4-8, IEC 61000-4-9, IEC 61000-4-10. Recommended generator: MFPO 9760.	
MFPO 9760	Transformer with pulse generator to be used together with the FESP 5410-1 coil (not included), to produce continuous magnetic fields up to 360 A/m and short time magnetic fields up to more than 1000 A/m. Including cables 95 mm^2 to connect the transformer to the FESP 5410-1 and glass fiber mast. For IEC 61000-4-8.	
AM 5410-1	Mounting kit for the FESP 5410-1/ MFPO 9760, composed by: - aluminimum base with wheels for the MFPO 9760; - glass-fiber mast; - adapter to mount the FESP 5410-1 on the fiber-glass mast.	
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 5210-100-2,5	Helmholtz coil pair, square shaped, side length 1 m, 100 turns with 2.5 mm diameter copper wire (for higher currents with less heat dissipation)	
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 5215-100-2,5	Helmholtz Coils up to 3900 A/m constant H field, 1,5 m x 1,5 m, 100 turns per coil, wire diameter 2.5mm.	
HHS 5218	Helmholtz Coils up to 126 A/m constant H field, 1,8 m x 1,8 m, 10 turns per coil	
NFCN 9732-xx	Compensations network with a fixed capacitor of xx microfarad capacity. Lowers the total impedance of a series circuitry of HHS and NFCN at a fixed design frequency.	
HHS 5230-100	Pair of Helmholtz coils according to SAE J551-17: 2 square coils with a side length of 3m, 100 turns, max. 650 A/m, each coil movable 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.	

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HHS 3D 5213-50	3-dimensional (one pair of coils for the X-Y-Z axis) Helmholtz Coils 1.25	
	m x 1.25 m (average size), 50 turns per coil. 240 A/m continuously (~ 300	
	μT/axis).	
	Inner Coil (Y-Axis): 1.1 m x 1.1 m	
	Center Coil (X-Axis): 1.21 m x 1.21 m	
	Outer Coil (Z-Axis): 1.32 m x 1.32 m	
AGEM 5520	Air gap electromagnet for extreme high magnetic field strengths of up to 2.2 Tesla.	
HS 5136	Hall probe to measure magnetic fields DC-200 kHz including power sup-	
	ply.	
Opt. 5136 ZG	Zero-Gauss-chamber to shield from external magnetic fields to calibrate	
•	hall probe HS 5136.	
FESP 5132	Radiating loop diam. 12 cm, 20 turns, DC to 250 kHz, max 15 A, 2x Ba-	
	nana jack 4mm, ISO 11452-8, MIL-STD 461E p. 108, EN 55103 5.18.3.2	
LoopHolder50	Calibration fixture to hold FESP 5134-40 in FESP 5132 in a distance of 50	
Loopiioideiso	mm acc. MIL461E figure RS101-3.	
FESP 5134-40	Loop Sensor / Antenna, diam. 4 cm, 51 turns, 5 Hz to 250 kHz, electro-	
1 LOF 3134-40	static shielding, BNC jack.	
EECD 5122		
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	
EEOD E460 0	connector female.	
FESP 5133-9	Circular Transmitting Loop Antenna, 133mm diameter, 10 kHz to 3 MHz,	
	including 5cm distance ring, suitable for VG 95377 Part 13 or Volvo Im-	
	munity against magnetic fields.	
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-F	Circular shielded loop sensor to determine the magnetic field strength 5	
	Hz to 250 kHz. 36 turns with nominal resistance of 7 Ohm, diameter 133	
	mm, distance gauge 7 cm included. MIL 461F and G RE101or RS101	
	alternative tests.	
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	
HFRA 5164	Circular Transmitting Loop Antenna, for IEC 61000-4-39, shielded, diame-	
III IXA OTOT	ter 10 cm, 3 turns, wire diameter 1mm, frequency range: DC to 50(120)	
	MHz.	
NFCN 1356	Compensation network for the HFRA 5164, to be used at the frequency of	
MI CM 1330	13.56 MHz. Must be connected directly at the HFRA 5164 connector.	
Loopholder E164	Calibration jig to hold HFRA 5164 in a distance of 50 mm from FESP	
Loopholder 5164-	, ,	
39	5134-1 acc. to IEC 61000-4-39.	
FESP 5134-1	Monitor loop, diameter 4 cm, 1 turn, 100 kHz – 300 MHz, electrostatically	
	shielded, BNC-jack.	
	Devices for IEC 61000-4-39 testing	
FESP 5132	Radiating loop diam. 12 cm, 20 turns, DC to 250 kHz, max 15 A, 2x Ba-	
2. 	nana jack 4mm, ISO 11452-8, MIL-STD 461E p. 108, EN 55103 5.18.3.2	
LoopHolder50	Calibration fixture to hold FESP 5134-40 in FESP 5132 in a distance of 50	
Loopi ioidei 30	mm acc. MIL461E figure RS101-3.	
EEQD 5124 40	Loop Sensor / Antenna, diam. 4 cm, 51 turns, 5 Hz to 250 kHz, electro-	
FESP 5134-40	static shielding, BNC jack.	
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HFRA 5164	Circular Transmitting Loop Antenna, for IEC 61000-4-39, shielded, diame-	
	ter 10 cm, 3 turns, wire diameter 1mm, frequency range: DC to 50(120)	
	MHz.	
NFCN 1356	Compensation network for the HFRA 5164, to be used at the frequency of	
	13.56 MHz. Must be connected directly at the HFRA 5164 connector.	
Loopholder 5164-	Calibration jig to hold HFRA 5164 in a distance of 50 mm from FESP	
39	5134-1 acc. to IEC 61000-4-39.	
FESP 5134-1	Monitor loop, diameter 4 cm, 1 turn, 100 kHz – 300 MHz, electrostatically	
	shielded, BNC-jack.	
TEMH 6000	TEM Horn antenna acc. to IEC 61000-4-39, 380-6000 MHz	
Spacer 100	Spacer for TEMH 6000. Test distance 100 mm.	
	Antennas for railway applications	
RSAL 5340	LF 3-dimensional magnetic rolling stock antenna for the lower frequency	
DO411 500 /	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	
DOA 001/55	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	
T b. a C B A A	RSAL 5340 or RSAH 5324 and to fix the antenna to the rail track.	
Tube wSMA	Assembled cable set in transparent hose for rolling stock antenna RSAH 5324/ RSAL 5340:	
	-length: 5 m (other lengths available on request)	
	Specification of a cable harness:	
	- impedance: 50 Ohm	
	- Cable type RG 316	
	- Connection type analyzer side: BNC or SMA connector	
	- Connection type antenna side: SMAconnector	
	- Cable labeled on both sides with field direction: X, Y or Z	
	Antenna Masts / Tripods / Adapters	
AM BBHA 9120 K	Antenna Mast System for the BBHA 9120 K horn antenna, manual height	
AIII DDITA 0120 K	scanning 1.0 m to 1.8 m, polarization and tilting continuously adjustable.	
Opt. 9120 K PN	Option for antenna mast AM BBHA 9120 K: pneumatic	
Opt. 3120 KT N	polarisation change.	
AM BBHA 9120 K	Antenna Mast System for the BBHA 9120 K horn antenna, fixed height of	
1m	1.0 m, polarization continuously adjustable, tilting not adjustable.	
AM 9104	Detachable Antenna Mast System (glass-fibre tubing) for VHF-UHF An-	
ANT FIVE	tennas, manual height scanning 0.4 m to 4 m, insulated mast and anten-	
	na box with 0°/90° detents, zinc-plated / stainless steel 3-leg mast foot.	
AM 9104 GF	Detachable Antenna Mast System (glass-fibre tubing) for VHF-UHF An-	
	tennas, manual height scanning 0.4 m to 4 m, insulated mast and anten-	
	na box with 0°/90° detents, 3-leg mast foot made of glass fiber.	
Opt. 9104 wheels	Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg	
	mast foot	
AM 9144 T-05	Glass fiber telescopes for antenna tripod/mast AM 9144, height range	
	adjustable by screw 510-940mm, 3/8"-thread on top, 55mm shaft to be	
	inserted into a mast foot	
AM 9144 T-08	Glass fiber telescopes for antenna tripod/mast AM 9144, height range	
	adjustable by screw 700-1300mm, 3/8"-thread on top, 55mm shaft to be	
	inserted into a mast foot	
AM 9144 T-09	Glass fiber telescopes for antenna tripod/mast AM 9144, height range	
	adjustable by screw 800-1510mm, 3/8"-thread on top, 55mm shaft to be	
	inserted into a mast foot	

AM 9144 T-12	Glass fiber telescopes for antenna tripod/mast AM 9144, height range	
AIVI 9144 1-12	adjustable by screw 1050-1950mm, 3/8"-thread on top, 55mm shaft to be	
	inserted into a mast foot	
AM 9144 M-VA	Robust 3-leg-mastfoot made of stainless steel with 55mm-inlet	
AM 9144 M-GFK	Low reflective 3-leg-mastfoot made of glass fiber reinforced plastics with	
AW 9144 W-GFR	55 mm-inlet	
AM 9144 M-TILT	Modification of stainless steel mast foot for AM 9144 with 0-20 degrees tilt function by hand wheel.	
AM 9144 W-VA	Caster wheels and brakes for stainless foot AM 9144 M-VA	
AM 9144 W-GFK	Caster wheels and brakes for GF-foot AM 9144 M-GFK	
AM 9144 E-05	Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 430mm	
AM 9144 E-08	Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 600mm	
AM 9144 E-09	Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 710mm	
AM 9144 E-12	Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 900mm	
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 fieldstrength	
AA 9209	Antenna adapter to fix STLP 9128 E, STLP 9128 E special, STLP 9128 D, STLP 9128 D special on AM 9144. Alllows 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.	
AA NMHA	Set of adapters, to mount the NMHA antennas on the AM 9144 system. Composed by the following parts: • 22mm tube NMHA (Short 22 mm tube (ca. 200 mm) with N-female connectors on both sides. Ideal to mount a NMHA antenna on the AM 9144 system, with AA 9202 or AA 9203 or POSITIONER);	
	 AD Nm BNCf (Adapter N male to BNC female); AD Nm Nm (Adapter N male to N male); NMHA Counterpoise N (NMHA Counterpoise 65x40 mm N jack - N jack for Renault or Nissan.) 	
RS 9214	Adapter to convert the R&S Aluminium 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.	

Price list

KG 9201	Mast Adapter (swivel, 90° vertical/horizontal polarisation for AM 9144), for	
NG 9201		
DDC 0200	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	
DD 0 0044	required.	
PDG 9211	Polarisation changer jig for large horn antennas. Allows easy polarisation	
	change of large horn antennas on AM 9144. Connection to AM 9144: 3/8"	
	female thread. Antenna will be held close to center of gravity. Polarisation	
	change by rotating along circular metal curve by one single person with-	
0	out any height offset.	
Opt. 9211 PN	Additional option for PDG 9211: polarisation change with pneumatic cylin-	
	der and 12V valve 5/2 ways. Including 50m compressed air hose.	
Opt. 9211 J	Specific accessories to fix BBHA 9120 J to PDG 9211. (rotating ring,	
	braces, short central tube, fixture materials). If ordered together with the	
	antenna we will fix everything before shipment.	
Opt. 9211 F	Specific accessories to fix BBHA 9120 F to PDG 9211. (rotating ring,	
	braces, short central tube, fixture materials). If ordered together with the	
	antenna we will fix everything before shipment.	
Opt. 9211 G	Specific accessories to fix BBHA 9120 G to PDG 9211. (rotating ring,	
	braces, short central tube, fixture materials). If ordered together with the	
	antenna we will fix everything before shipment.	
Opt. 9211 9251-24	Specific accessories to fix HA 9251-24 to PDG 9211. (rotating ring, brac-	
	es, short central tube, fixture materials). If ordered together with the an-	
	tenna we will fix everything before shipment.	
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 Ameri-	
	can 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 posi-	
	tioner 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.	
CABLE GUIDE	Holder to guide the antenna's cable parallel to the POSITIONER at a	
	distance of 50 cm. Ideal for the SBA 9113 + 420 NJ and the SBA 9119 +	
	422NJ antennas.	
RRAH 9286	Antenna holder for antennas with 22mm tube to be fixed at car roof railing	
	or car roof rack.	
TWAD 9220	Twin adapter to mount two antennas equipped with 22 mm diameter tube.	
	The TWAD 9220 allows to position the antennas in a broad combination	
	of distances and angles.	
AD ATH4G8	Adapter to mount the horn antenna ATH4G8 (Made by AR) on a AA 9202	
	or AA 9203 mast adapter. Consisting of a 22 mm tube with lenght of 20	
	cm.	
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