



HUBER+SUHNER® POWER SPLITTERS

Edition 2005



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HUBER+SUHNER Power Splitters

Description

HUBER+SUHNER Power Splitters are low loss reactive splitters for the distribution of RF signals to radio transceiver antenna systems including radiating cables. The RF power is evenly split to all outputs with excellent amplitude and phase balance.

A broad range of power splitters with N and DIN 7/16 connectors has been designed to split even high power multi-carrier signals of all existing mobile phone systems. Multiband units simplify logistics for OEMs and multi-system operators. 400 MHz range products support security and emergency systems like TETRA and Tetrapol. Smaller units with SMA connectors can be provided for picocell wireless communication systems (WLL, WLAN, ISM, WiFi, WiMax).



Features

- Superior RF performance, low VSWR and Insertion Loss
- PIM level typically -150 dBc (3rd order, N and 7/16 connector styles)
- Available in the frequency range from 360 MHz to 6 GHz
- 2-way, 3-way and 4-way configurations
- DC continuity for outdoor powering
- Rugged and reliable design
- Waterproof IP 65 (N and 7/16 connector styles)
- Outdoor installation supported by special outdoor units with protective cover

Specifications

Electrical data	Requirements	
Impedance	50 Ω	
Frequency range	according to shown product specification, basic range from 380 MHz to 6 GHz	
RL (Return loss)	refer to shown product specification	
IL (Insertion loss)	0.2 dB max. refer to shown product specification	
PIM	according to product detail specification (data sheet)	
RF average power	≤ 500 W for N and 7/16 styles ≤ 100 W for SMA styles	
Nominal split loss	2 way splitters	3.0 dB
	3 way splitters	4.8 dB
	4 way splitters	6.0 dB
Isolation between ports	2 way splitters	6.0 dB
	3 way splitters	9.5 dB
	4 way splitter	12.0 dB

Mechanical data	Requirements
Coupling nut torque force	according to IEC/MIL specifications
Durability (matings)	500 min.

Environmental data	Requirements/Test conditions
Operation temperature range	- 40 °C...+ 85 °C/ - 40 °F...+ 185 °F
Waterproof degree (IEC 60529)	IP65 (SMA styles IP64)
Temperature shock	MIL-STD-202, Meth. 107, Cond. B
Moisture resistance	MIL-STD-202, Meth. 106
Vibration	MIL-STD-202, Meth. 204, Cond. D

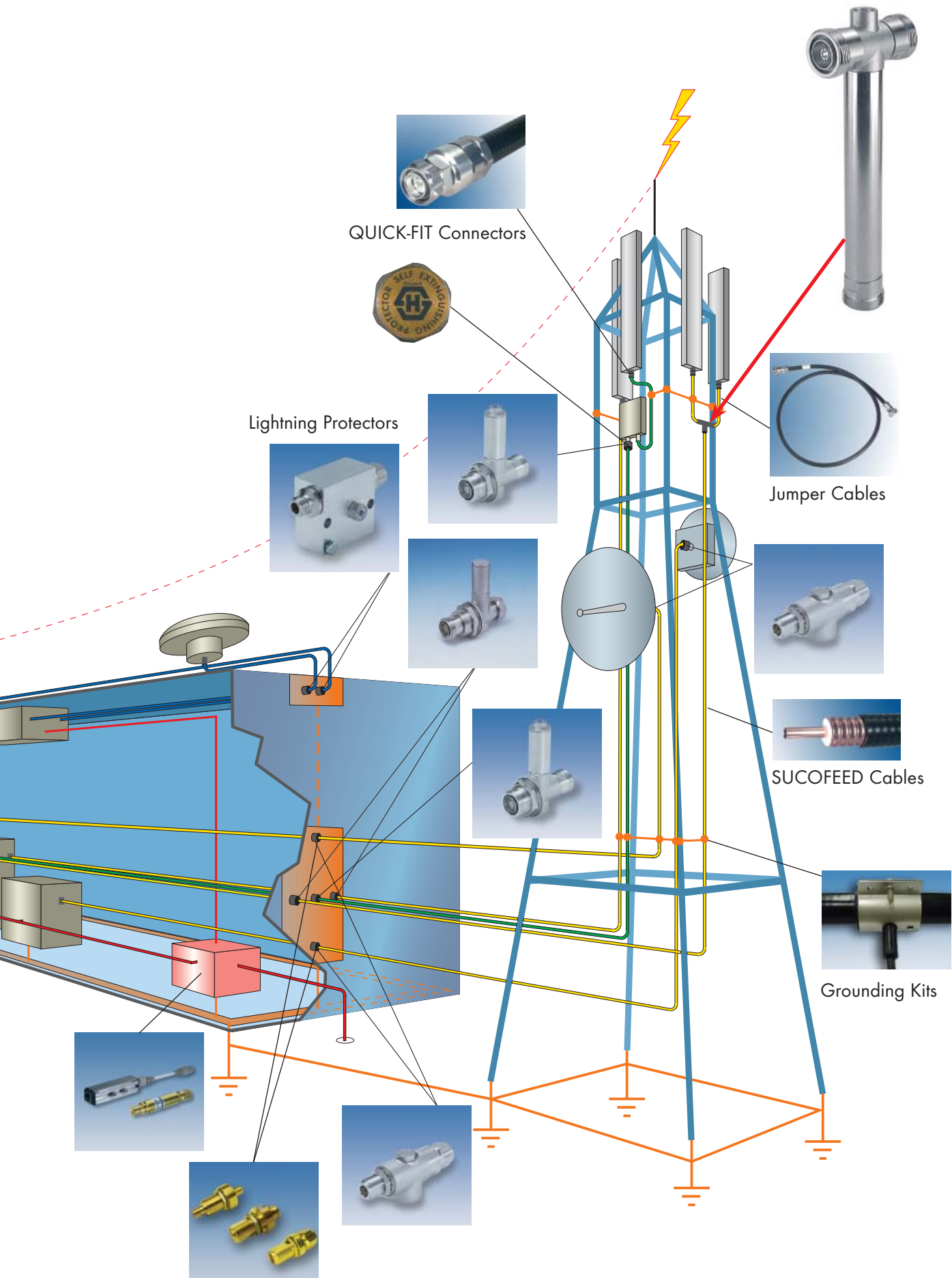
The product is designed to meet the cited test procedures. Any additional or different requirements arising from specific applications or environmental conditions not covered by the test specifications mentioned above are subject to request and need to be confirmed by the single product detail specification.

We recommend additional taping for long term outdoor applications in any case.

Material data (splitters with 7/16 connectors)			
Component part	Standard	Material	Plating
Housings	QQ-B-626	brass	SUCOPLATE®
Male contacts	QQ-B-626	brass	silver plating
Female contacts	QQ-C-530	CuBe2	silver plating
Insulators	ASTM-D-1457	PTFE	
Gaskets	ASTM-E-1418 PS 1	silicone rubber	

Material data (splitters with N or SMA connectors)			
Component part	Standard	Material	Plating
Housings	QQ-B-626	brass	SUCOPLATE®
Male contacts	QQ-B-626	brass	gold plating
Female contacts	QQ-C-530	CuBe2	gold plating
Insulators	ASTM-D-1457	PTFE	
Gaskets	ASTM-E-1418 PS 1	silicone rubber	

HUBER+SUHNER Power Splitters - Application



HUBER+SUHNER Power Splitters - Quick Selection List



Mobile and fixed communications

System	System frequency range [MHz]	Connectors input/output	Mounting MH - hole for «b» M - screw brk - bracket	H+S type	Further product info Page	Drawing Page
TETRA, TETRAPOL	380-512	N female - 2 x N female	brk, M8	5500.17.0001	7	14
		N female- 3 x N female	brk, M8	5500.17.0002	7	14
		N female- 4 x N female	brk, M8	5500.17.0003	7	14
		7/16 female - 2 x 7/16 female	brk, M8	5500.41.0001	7	20
		7/16 female - 3 x 7/16 female	brk, M8	5500.41.0002	7	20
		7/16 female - 4 x 7/16 female	brk, M8	5500.41.0003	7	20
AMPS/NADC TACS,TETRA,GSM GPS DCS,PCS, DECT UMTS	824-894 860-960 1565-1586 1710-1900 1885-2200	N female - 2 x N female	brk, M8	5502.17.0020	10	18
		N female - 3 x N female	brk, M8	5502.17.0021	10	18
		N female - 4 x N female	brk, M8	5502.17.0022	10	18
		7/16 female - 2 x 7/16 female	brk, M8	5502.41.0020	10	25
		7/16 female - 3 x 7/16 female	brk, M8	5502.41.0021	10	25
		7/16 female - 4 x 7/16 female	brk, M8	5502.41.0022	10	25
WLL, WLAN ISM	2100-2500	SMA male - 2 x SMA female		5502.19.0004	12	20
		SMA male - 3 x SMA female		5502.19.0005	12	20
		SMA male - 4 x SMA female		5502.19.0006	12	20
WiFi WiMax	2000-6000	N male - 2 x N female	brk, M6	5504.17.0004	12	26
		N female - 2 x N female	brk, M6	5504.17.0005	12	26

General radio, microwave radio and wireless applications – select according to operation frequency range

System	System frequency range [MHz]	Connectors input/output	Mounting MH - hole for «b» M - screw brk - bracket	H+S type	Further product info Page	Drawing Page
	360-530	N female - 2 x N female	brk, M8	5500.17.0001	7	14
		N female - 3 x N female	brk, M8	5500.17.0002	7	14
		N female - 4 x N female	brk, M8	5500.17.0003	7	14
		7/16 female- 2 x 7/16 female	brk, M8	5500.41.0001	7	20
		7/16 female - 3 x 7/16 female	brk, M8	5500.41.0002	7	20
		7/16 female - 4 x 7/16 female	brk, M8	5500.41.0003	7	20
	800-2200	N female - 2 x N female	brk, M8	5502.17.0020	10	18
		N female - 3 x N female	brk, M8	5502.17.0021	10	18
		N female - 4 x N female	brk, M8	5502.17.0022	10	18
		7/16 female - 2 x 7/16 female	brk, M8	5502.41.0020	10	25
		7/16 female - 3 x 7/16 female	brk, M8	5502.41.0021	10	25
		7/16 female - 4 x 7/16 female	brk, M8	5502.41.0022	10	25
	2000(2100)-2500	SMA male - 2 x SMA female		5502.19.0004	12	20
		SMA male - 3 x SMA female		5502.19.0005	12	20
		SMA male - 4 x SMA female		5502.19.0006	12	20
	2000-6000	N male- 2 x N female	brk, M6	5504.17.0004	12	26
		N female- 2 x N female	brk, M6	5504.17.0005	12	26

HUBER+SUHNER Power Splitters - Product Range



Products with frequency range 360 - 530 MHz (for the connection of 2 .. 4 antennas)

Amplitude balance
Phase balance

0.2 dB max.
0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5500.17.0001	22649075	2 antennas	N female	26 (360-530 MHz)	typ. 0.2	500 W	1.2	14
5500.17.0002	22649076	3 antennas	N female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	1.4	14
5500.17.0003	22649077	4 antennas	N female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	1.4	14
5500.41.0001	22649081	2 antennas	7/16 female	26 (360-530 MHz)	typ. 0.2	500 W	1.2	20
5500.41.0002	22649082	3 antennas	7/16 female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	1.3	20
5500.41.0003	22649083	4 antennas	7/16 female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	1.3	20

*RL = Return loss

*IL = Insertion Loss

**Products with frequency range 360 - 530 MHz including protective cover
(for the connection of 2 .. 4 antennas)**

Delivery includes right angle adaptors, protective cover with screw M8, screw fixation cord and rubber bellows.

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5500.17.0004	22649078	2 antennas	N female	26 (360-530 MHz)	typ. 0.2	500 W	1.8	14
5500.17.0005	23012149	3 antennas	N female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	2.1	14
5500.17.0006	23012148	4 antennas	N female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	2.1	14
5500.41.0004	22649084	2 antennas	7/16 female	26 (360-530 MHz)	typ. 0.2	500 W	1.9	21
5500.41.0005	22649085	3 antennas	7/16 female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	2.2	21
5500.41.0006	23004940	4 antennas	7/16 female	26 (390-500 MHz) 21 (360-530 MHz)	typ. 0.2	500 W	2.2	21

*RL = Return loss

*IL = Insertion Loss

**Products with frequency range 720 - 1100 MHz
(for the connection of 2 .. 4 antennas)**

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5501.17.0001	22648875	2 antennas	N female	26 (720-1100 MHz)	typ. 0.2	500 W	0.8	15
5501.17.0002	22648876	3 antennas	N female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	0.9	15
5501.17.0003	22648877	4 antennas	N female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	1.0	15
5501.41.0001	22648749	2 antennas	7/16 female	26 (800-1000 MHz)	typ. 0.2	500 W	0.7	22
5501.41.0002	22648750	3 antennas	7/16 female	26 (800-1000 MHz) 21 (720-1100 MHz)	typ. 0.2	500 W	0.8	22
5501.41.0003	22648751	4 antennas	7/16 female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	1.0	22

**Products with frequency range 720 - 1100 MHz including protective cover
(for the connection of 2 .. 4 antennas)**

Delivery includes right angle adaptors, protective cover with screw M8, screw fixation cord and rubber bellows.

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5501.17.0004	22648878	2 antennas	N female	26 (720-1100 MHz)	typ. 0.2	500 W	1.4	16
5501.17.0005	22648879	3 antennas	N female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	1.5	16
5501.17.0006	22648880	4 antennas	N female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	1.7	16
5501.41.0004	22648752	2 antennas	7/16 female	26 (800-1000 MHz)	typ. 0.2	500 W	1.5	22
5501.41.0005	22648753	3 antennas	7/16 female	26 (800-1000 MHz) 21 (720-1100 MHz)	typ. 0.2	500 W	1.7	22
5501.41.0006	22648754	4 antennas	7/16 female	26 (800-1000 MHz) 19 (720-1100 MHz)	typ. 0.2	500 W	1.8	23

*RL = Return loss

*IL = Insertion Loss

**Products with frequency range 800 - 2200 MHz
(for the connection of 2 .. 4 antennas)**

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5502.17.0020	23018806	2 antennas	N female	21 (800-2200 MHz)	typ. 0.2	500 W	0.7	18
5502.17.0021	23018807	3 antennas	N female	24 (800-2200 MHz)	typ. 0.2	500 W	0.8	18
5502.17.0022	23018808	4 antennas	N female	21 (800-2200 MHz)	typ. 0.2	500 W	0.9	18
5502.41.0020	23017269	2 antennas	7/16 female	21 (800-2200 MHz)	typ. 0.2	500 W	0.7	25
5502.41.0021	23017271	3 antennas	7/16 female	26 (800-2200 MHz)	typ. 0.2	500 W	0.8	25
5502.41.0022	23017272	4 antennas	7/16 female	21 (800-2200 MHz)	typ. 0.2	500 W	0.9	25

**Products with frequency range 800 - 2200 MHz including protective cover
(for the connection of 2 .. 4 antennas)**

Delivery includes right angle adaptors, protective
cover with screw M8, screw fixation cord
and rubber bellows.

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5502.17.0023	23018809	2 antennas	N female	21 (800-2200 MHz)	typ. 0.2	500 W	1.3	19
5502.17.0024	23018810	3 antennas	N female	24 (800-2200 MHz)	typ. 0.2	500 W	1.4	19
5502.17.0025	23018811	4 antennas	N female	21 (800-2200 MHz)	typ. 0.2	500 W	1.5	19
5502.41.0023	23018803	2 antennas	7/16 female	21 (800-2200 MHz)	typ. 0.2	500 W	1.3	25
5502.41.0024	23018804	3 antennas	7/16 female	26 (800-2200 MHz)	typ. 0.2	500 W	1.4	26
5502.41.0025	23018805	4 antennas	7/16 female	21 (800-2200 MHz)	typ. 0.2	500 W	1.5	26

*RL = Return loss

*IL = Insertion Loss

**Products with frequency range 1400 - 2200 MHz
(for the connection of 2 .. 4 antennas)**

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5502.17.0001	22649070	2 antennas	N female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	0.5	17
5502.17.0002	22649072	3 antennas	N female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	0.6	17
5502.17.0003	22649073	4 antennas	N female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	0.7	17
5502.41.0001	22649071	2 antennas	7/16 female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	0.5	23
5502.41.0002	22649065	3 antennas	7/16 female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	0.5	23
5502.41.0003	22649066	4 antennas	7/16 female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	0.6	23

**Products with frequency range 1400 - 2200 MHz including protective cover
(for the connection of 2 .. 4 antennas)**

Delivery includes right angle adaptors, protective
cover with screw M8, screw fixation cord
and rubber bellows.

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors all ports	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5502.17.0004	22649063	2 antennas	N female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	1.1	17
5502.17.0005	22649064	3 antennas	N female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	1.3	17
5502.17.0006	22649062	4 antennas	N female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	1.4	17
5502.41.0004	22649067	2 antennas	7/16 female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	1.2	24
5502.41.0005	22649068	3 antennas	7/16 female	26 (1600-2200 MHz) 21 (1400-2200 MHz)	typ. 0.2	500 W	1.4	24
5502.41.0006	22649069	4 antennas	7/16 female	26 (1600-2200 MHz) 19 (1400-2200 MHz)	typ. 0.2	500 W	1.6	24

*RL = Return loss

*IL = Insertion Loss

**Products within frequency range 2000 - 2500 MHz
(for the connection of 2 .. 4 antennas)**

Amplitude balance 0.2 dB max.
Phase balance 0.5 degrees max.



H+S type	Item no.	Antennas	Connectors input/output	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5502.19.0004	22650303	2 antennas	SMA male/ SMA female	19 (2000-2500 MHz)	typ. 0.2	100 W	0.012	20
5502.19.0005	22650304	3 antennas	SMA male/ SMA female	17.5 (2100-2500 MHz)	typ. 0.2	100 W	0.014	20
5502.19.0006	22650305	4 antennas	SMA male/ SMA female	16.5 (2100-2500 MHz)	typ. 0.2	100 W	0.015	20

**Products within frequency range 2000 - 6000 MHz
(for the connection of 2 antennas)**

Amplitude balance 0.2 dB max.
Phase balance 3.0 degrees max.

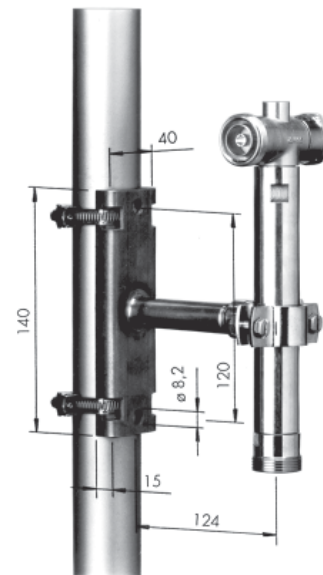


H+S type	Item no.	Antennas	Connectors input/output	RL* min. (input) [dB]	IL* [dB]	Average power	Weight [kg]	Drawing page
5504.17.0004	84005364	2 antennas	N male/ N female	20 (2000-6000 MHz)	typ. 0.2	300 W	0.2	26
5504.17.0005	84011465	2 antennas	N female/ N female	20 (2000-6000 MHz)	typ. 0.2	300 W	0.2	26

HUBER+SUHNER Power Splitters - Accessories

Mounting hardware

This mounting hardware allows to fix series 5500, 5501 and 5502 power splitters on masts of 40 to 360 mm diameter by means of non corrosive steel hose clamps. It can be used for wall-mounting (two 8.0 mm diameter holes) also.



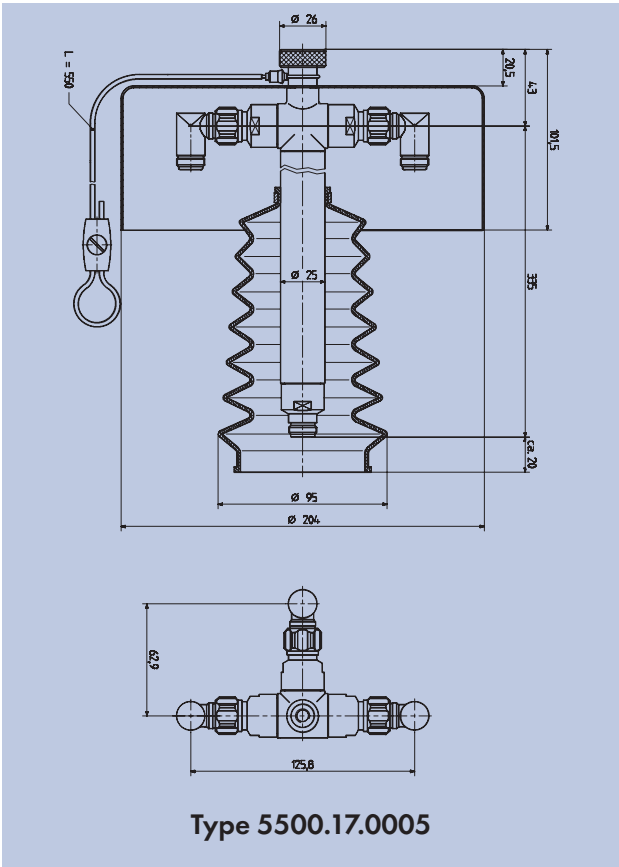
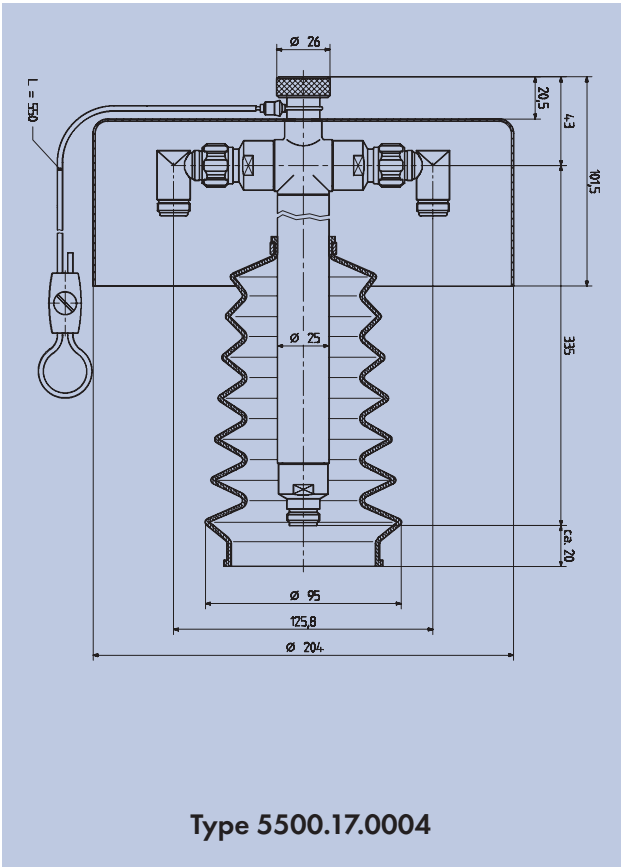
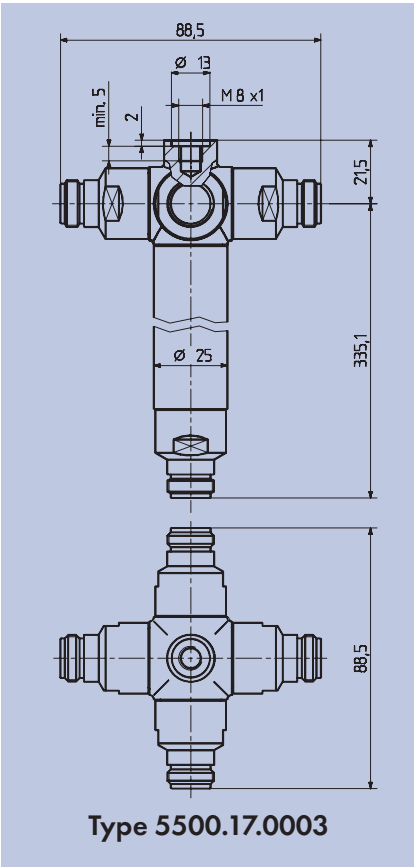
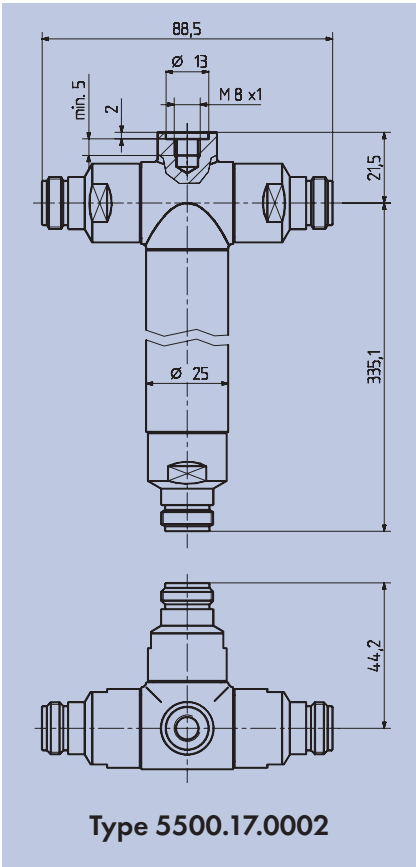
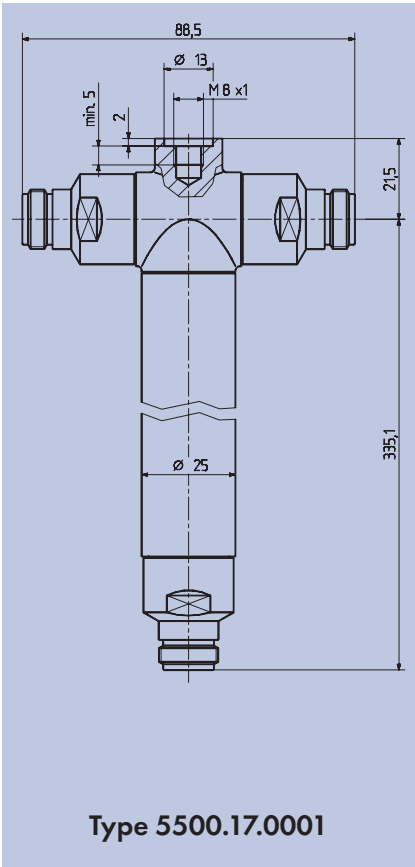
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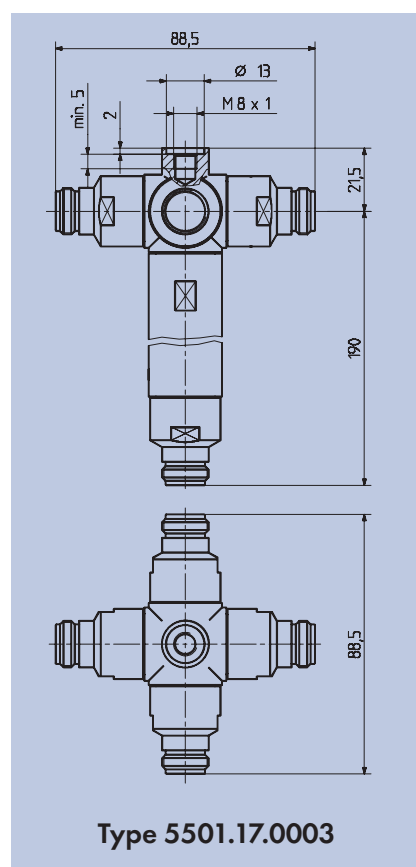
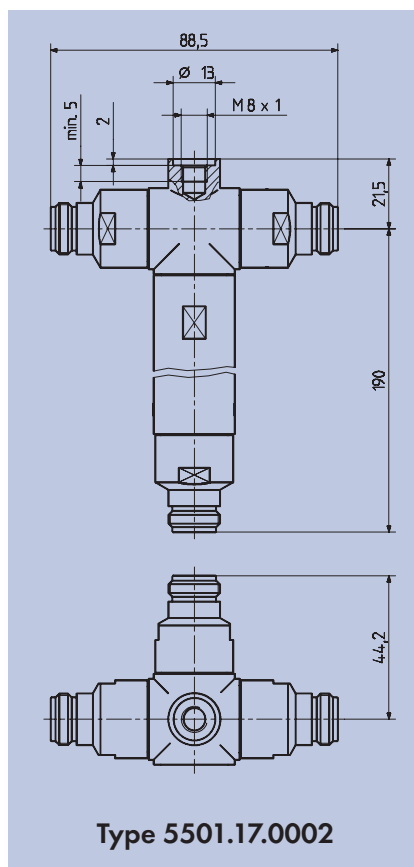
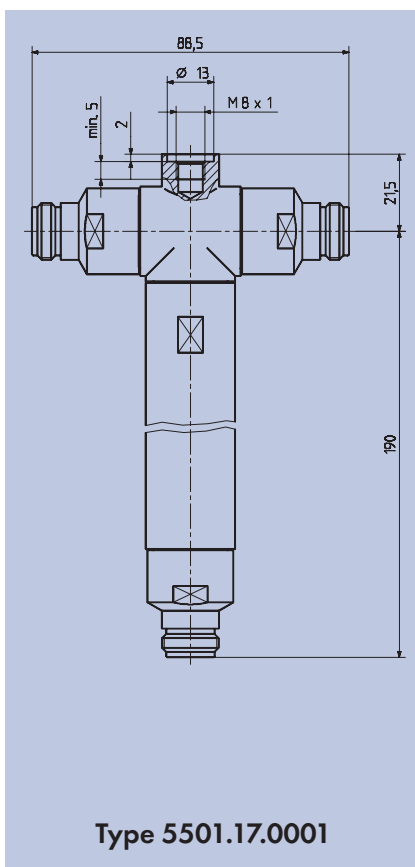
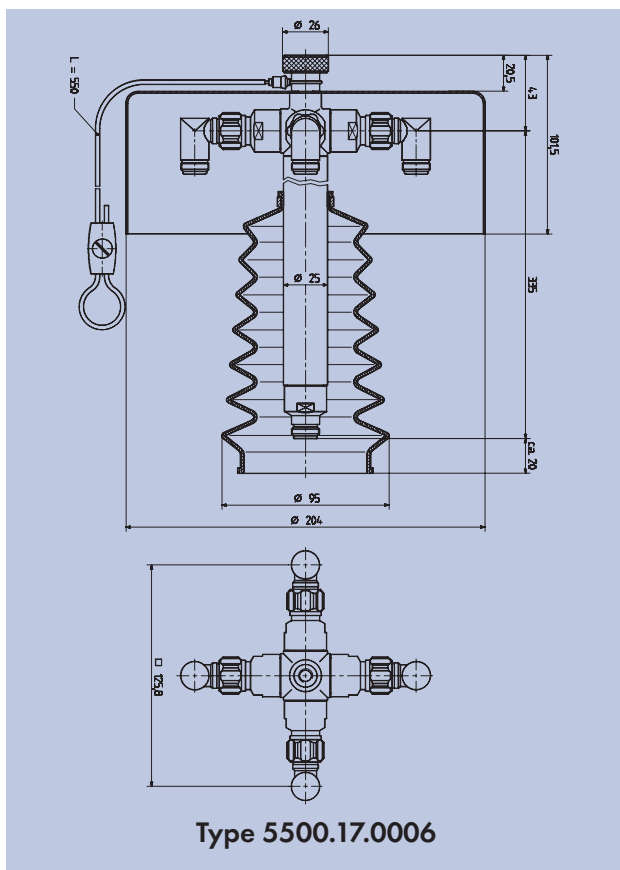
Please order separately!

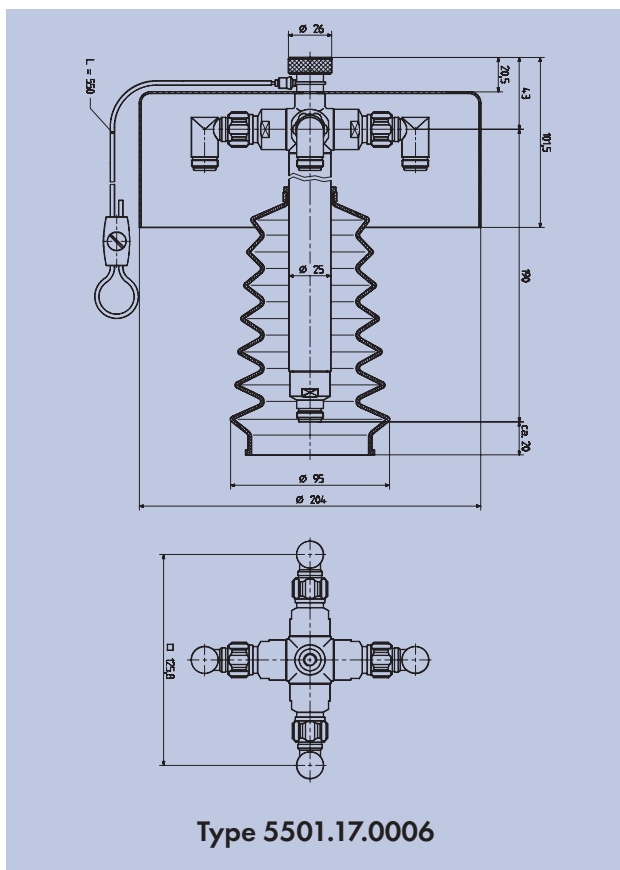
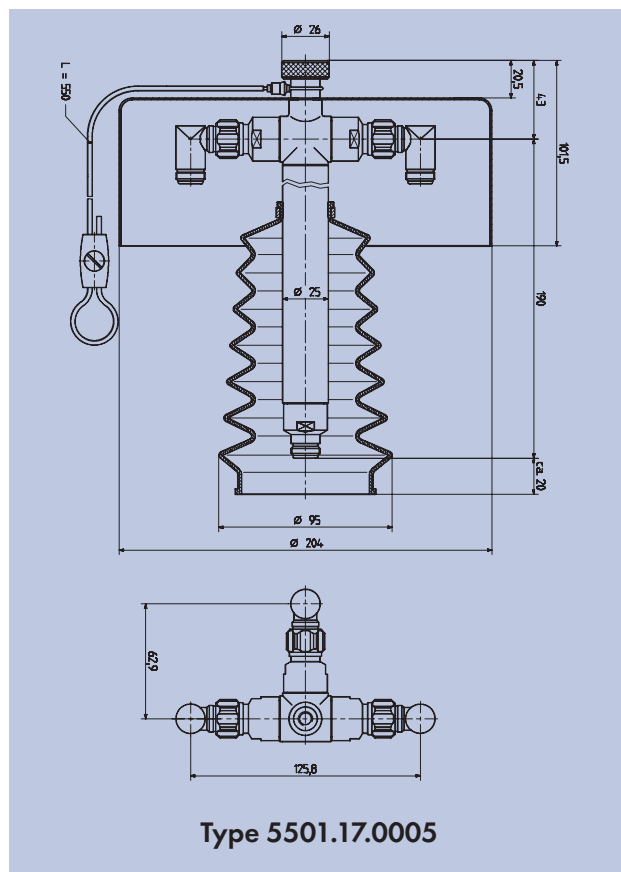
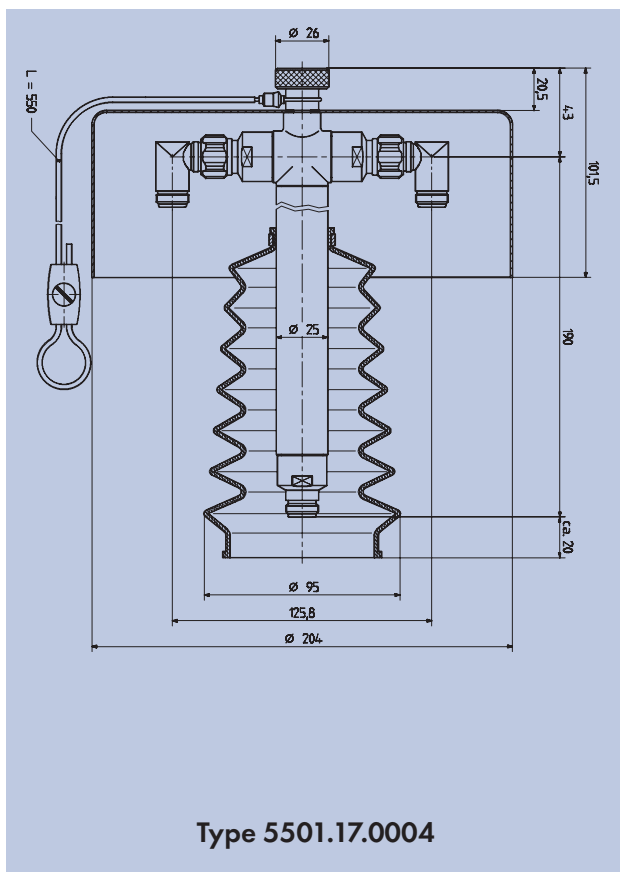
H+S type	Item no.	For mast diameter	Weight [kg]
9075.99.0001	22648739	40 - 50 mm	0.4
9075.99.0002	22648738	50 - 360 mm	0.5

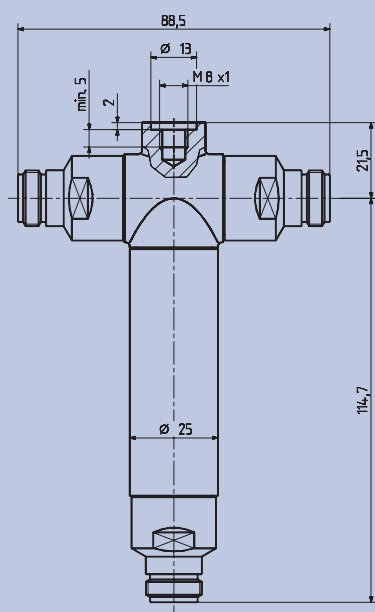
Note: One set consists of a complete bracket plus two steel hose clamps adjusted to the selected mast diameter.

HUBER+SUHNER Power Splitters - Drawings

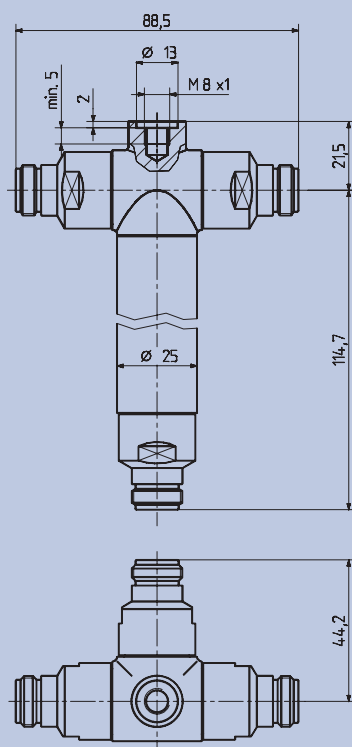




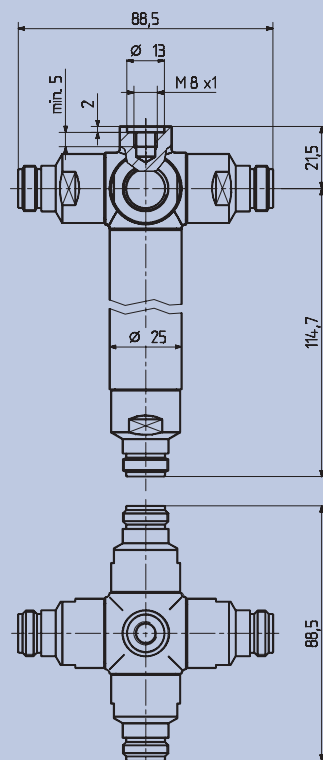




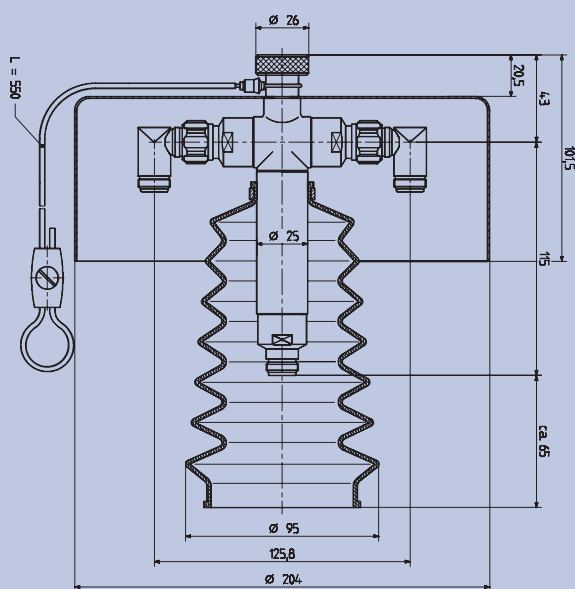
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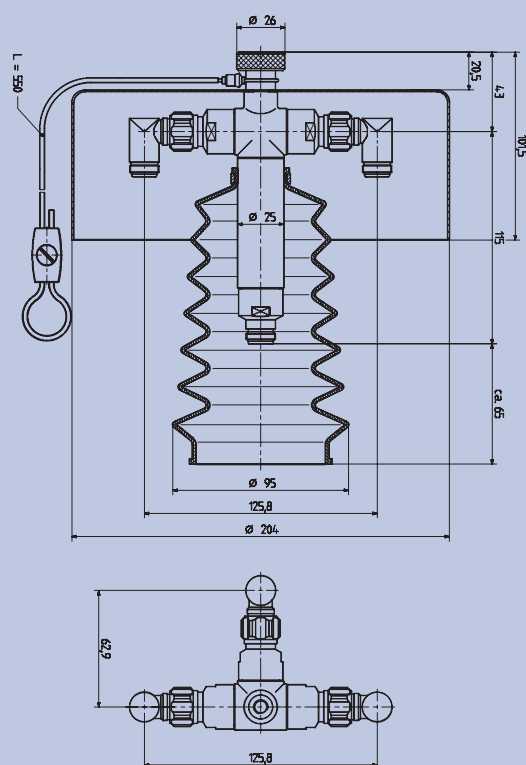
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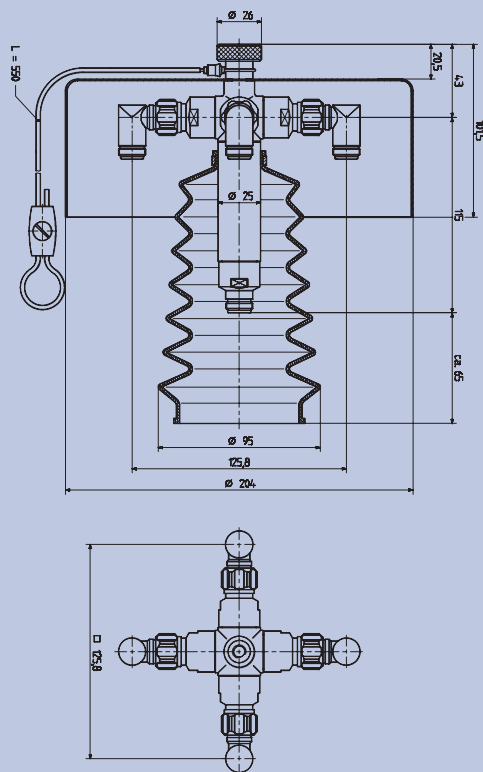
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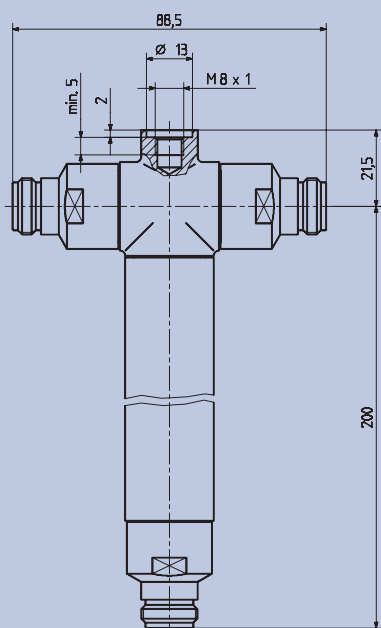
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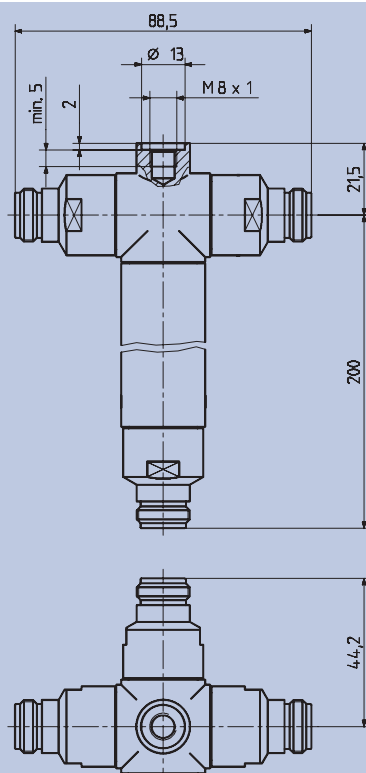
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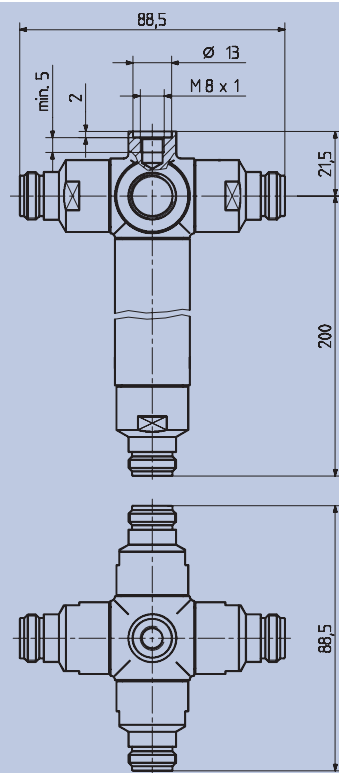
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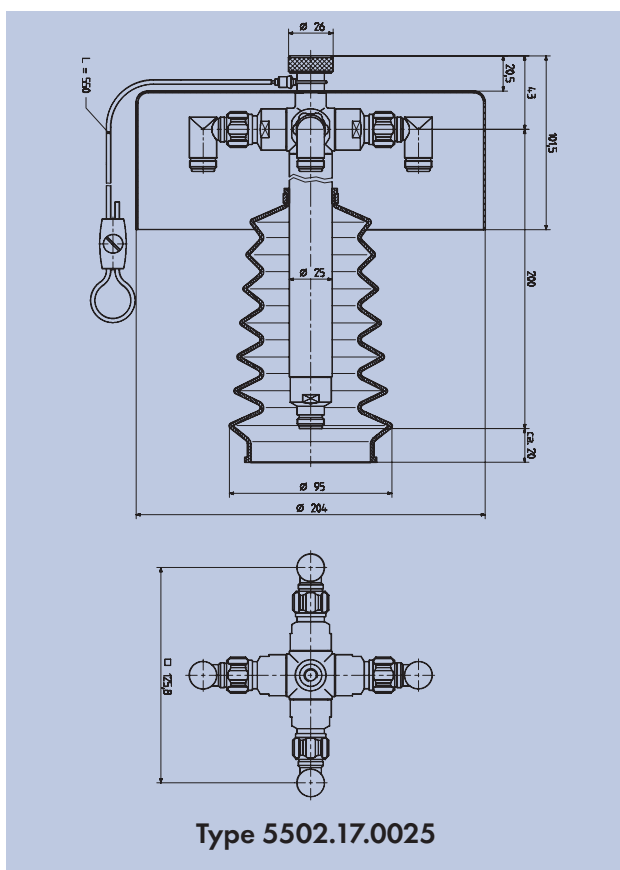
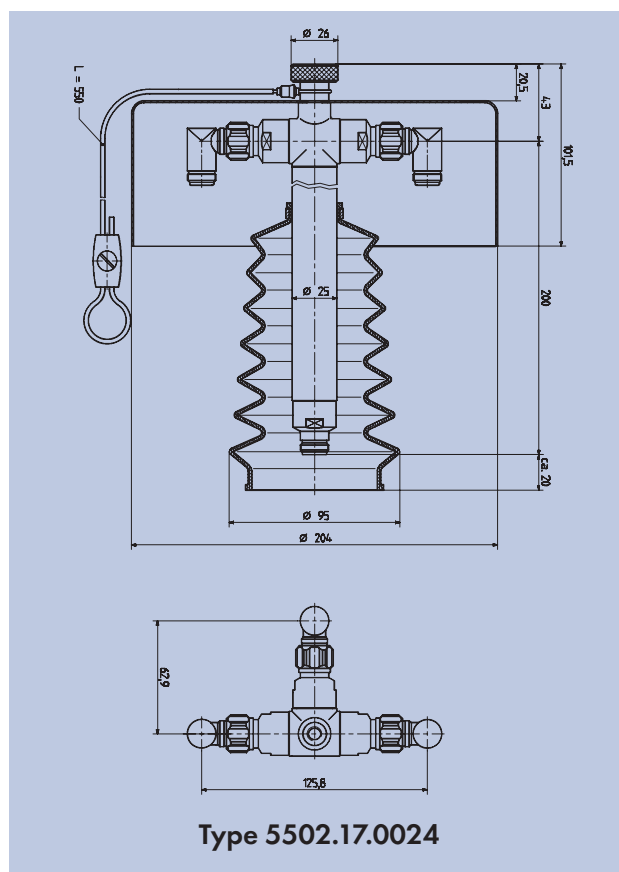
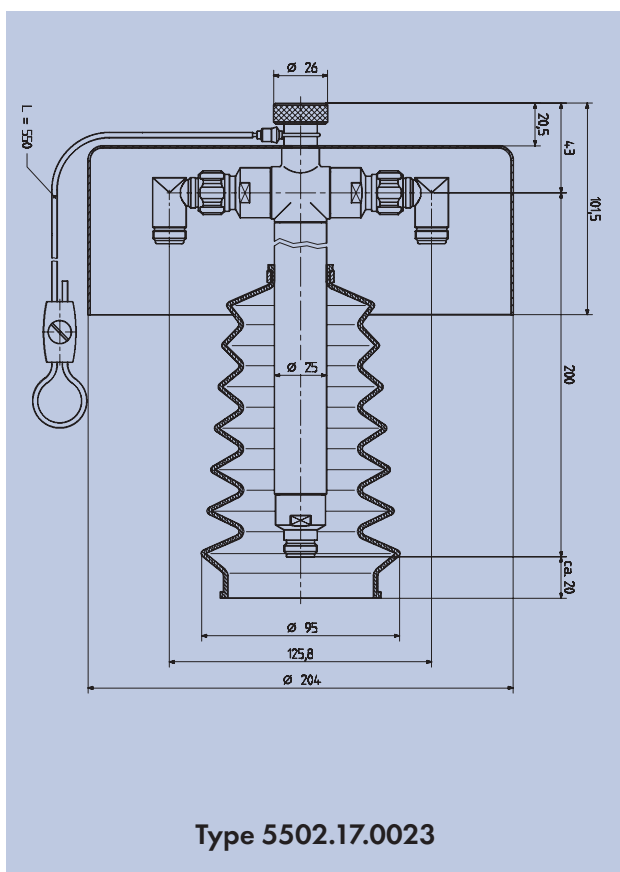
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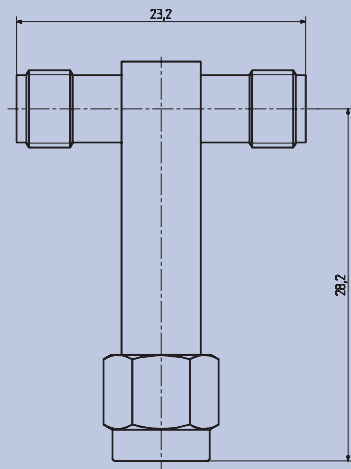


Type 5502.17.0021

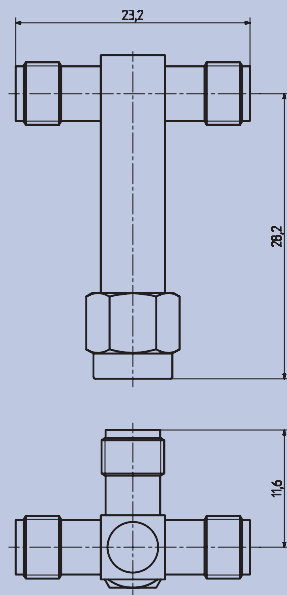


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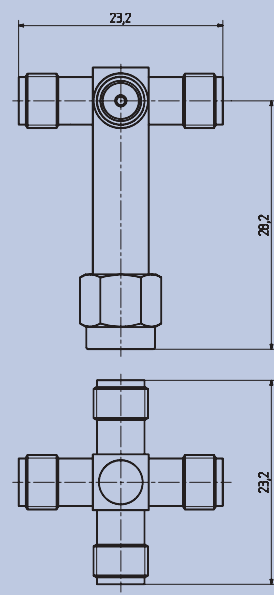




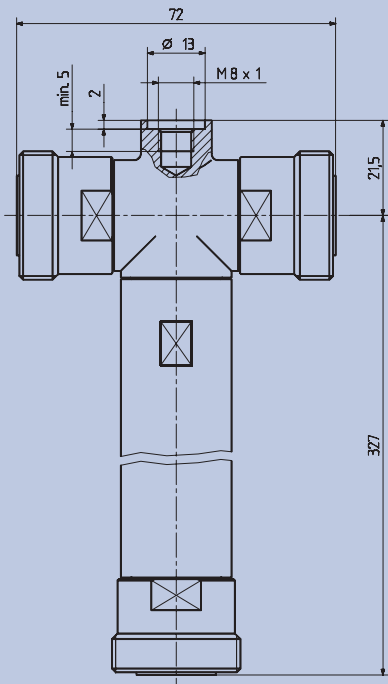
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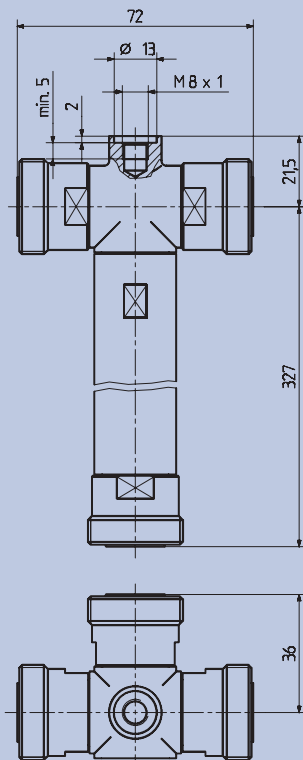
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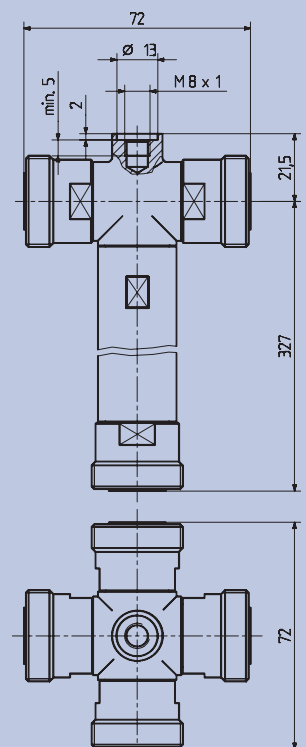
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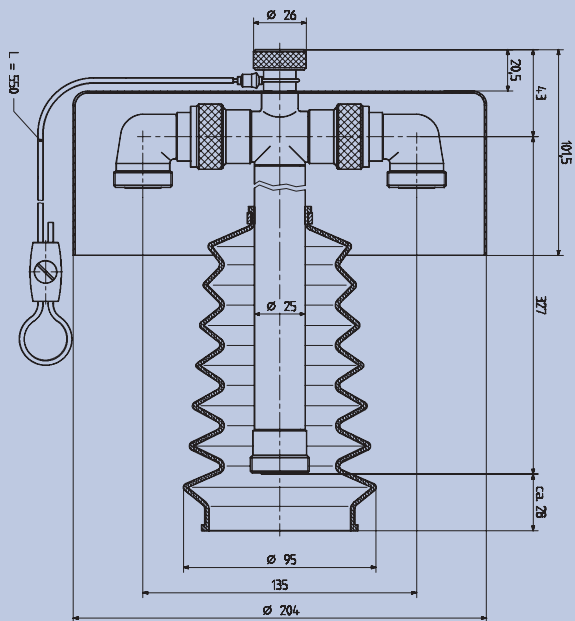
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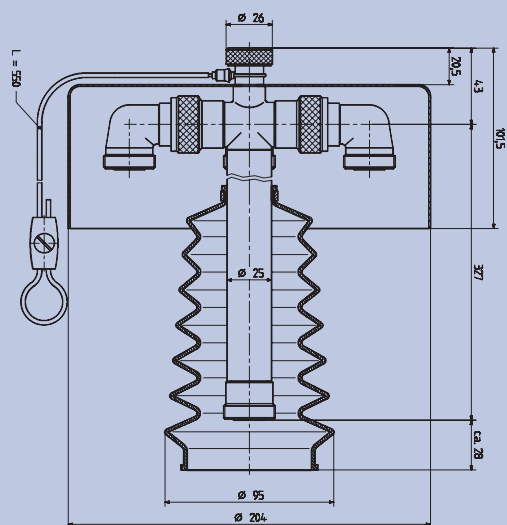
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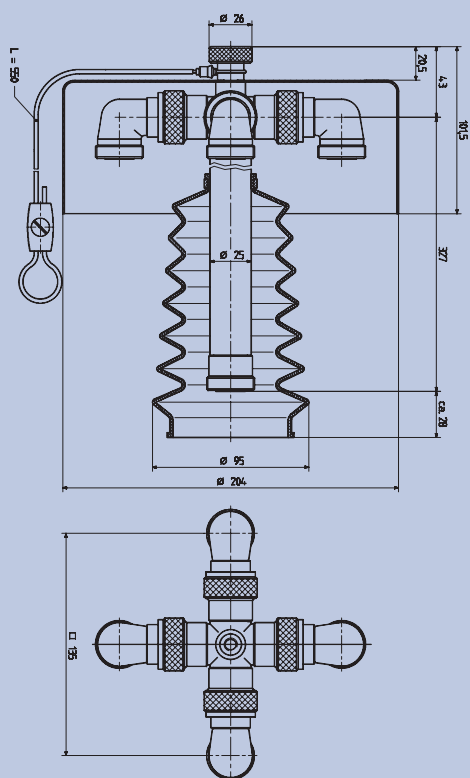
Type 5500.41.0003



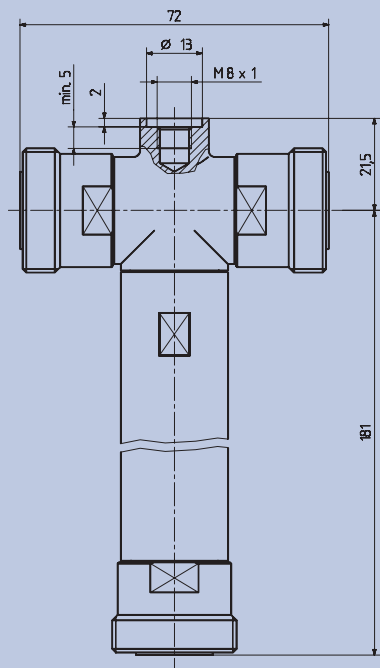
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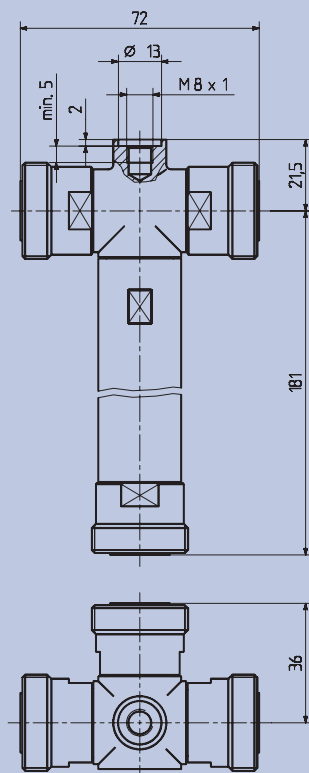
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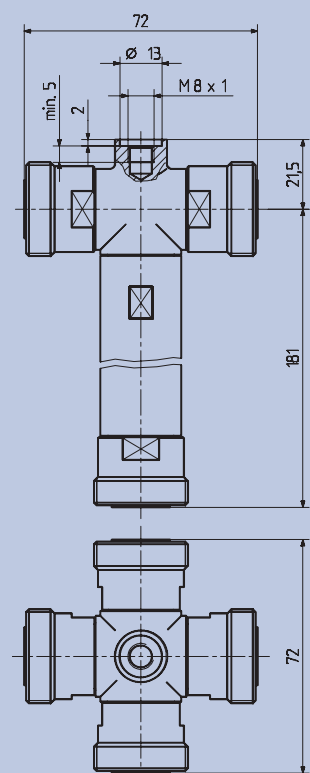
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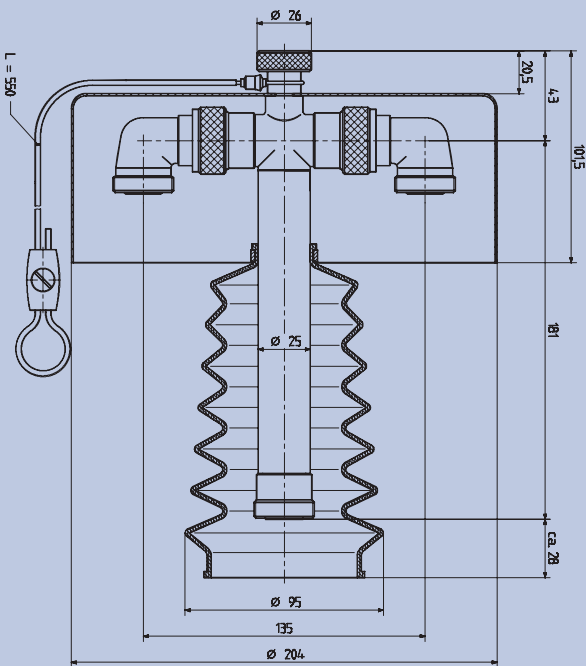
Type 5501.41.0001



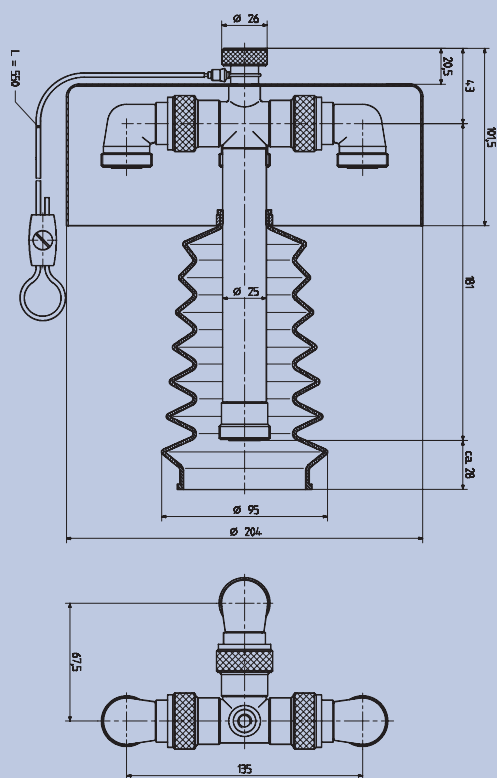
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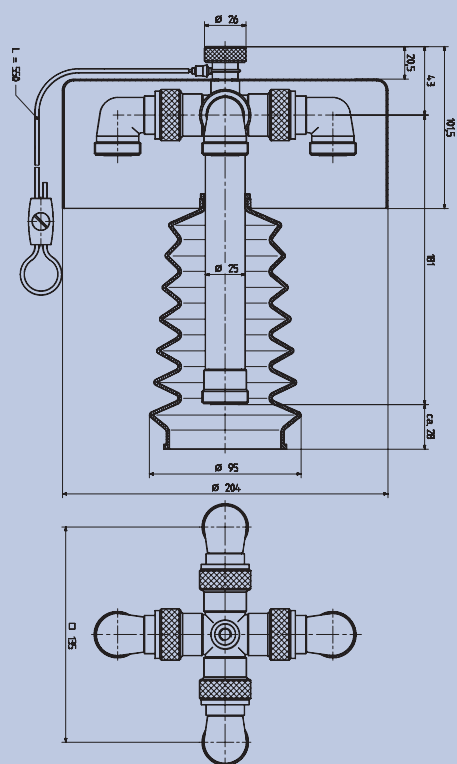
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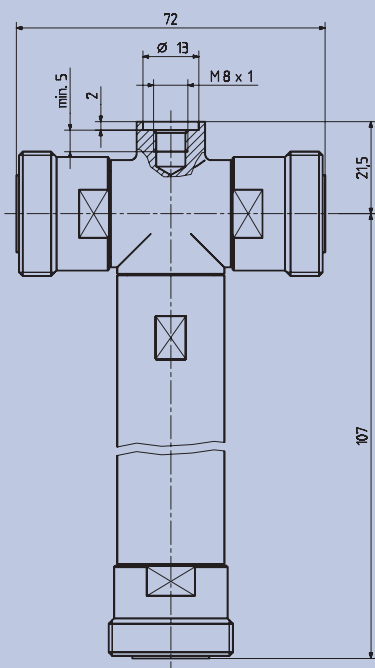
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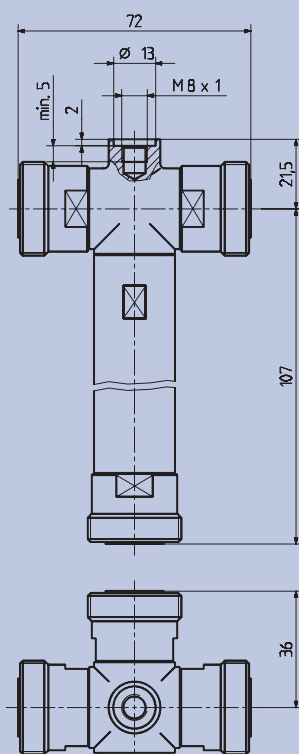
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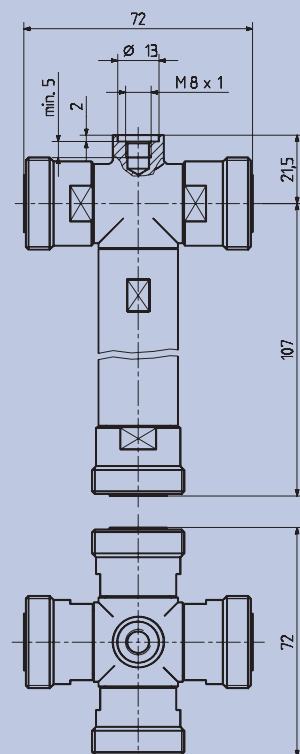
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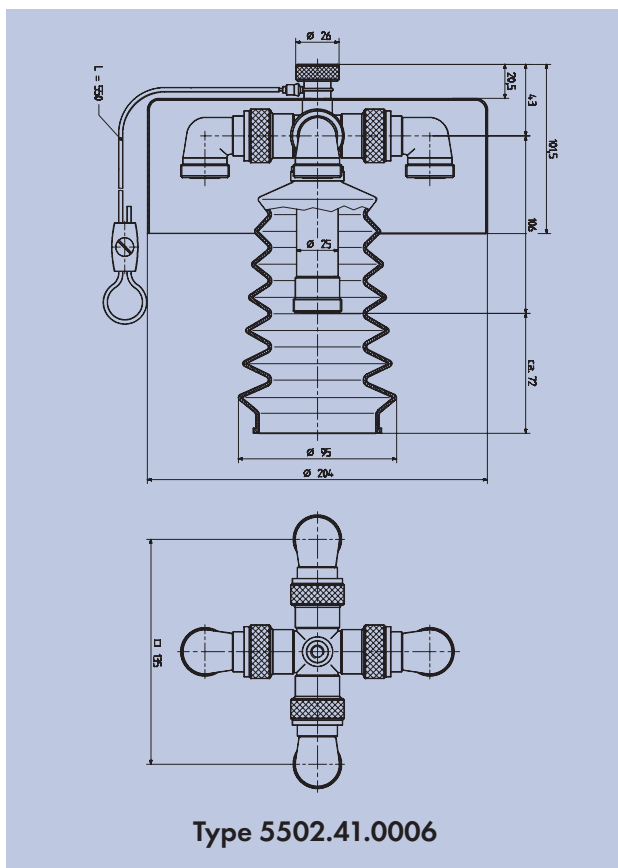
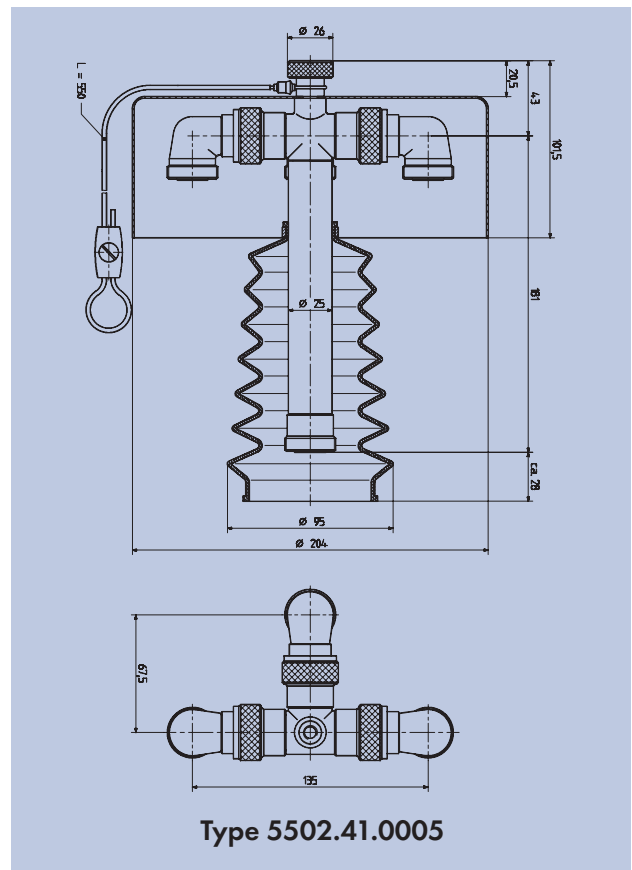
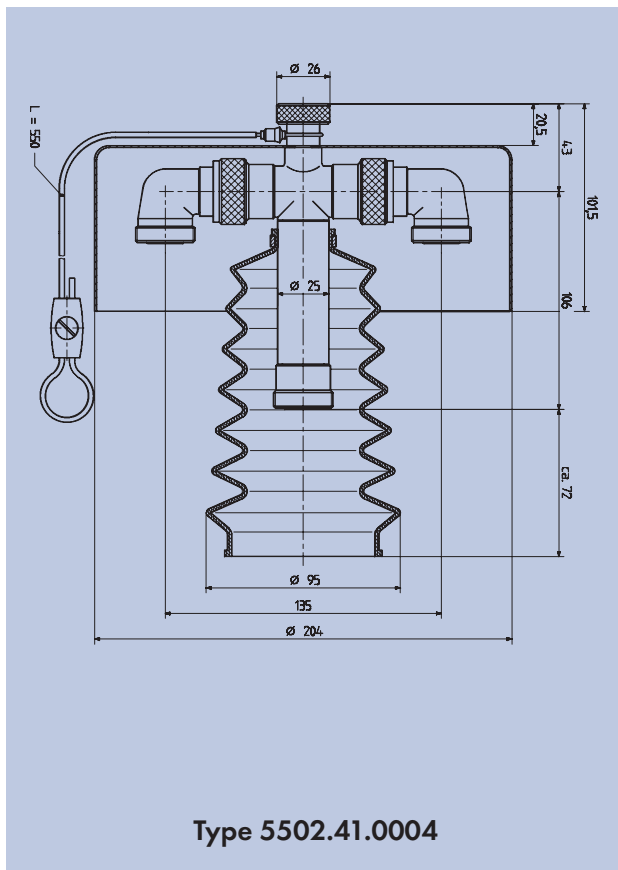
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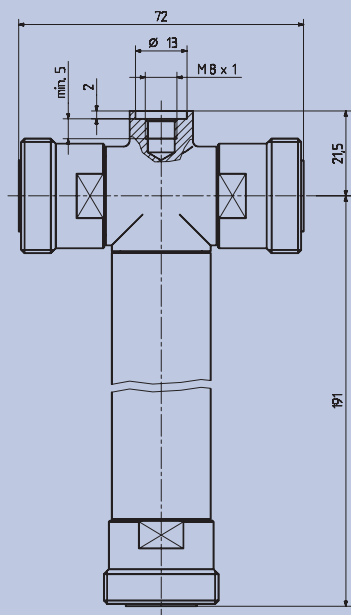


Type 5502.41.0002

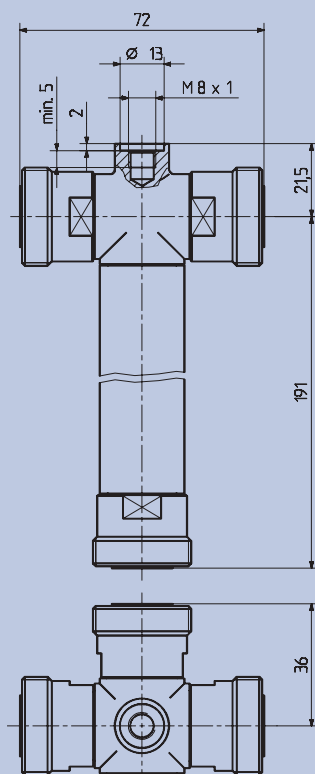


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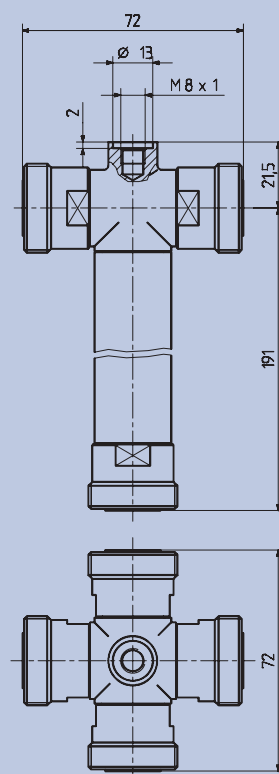




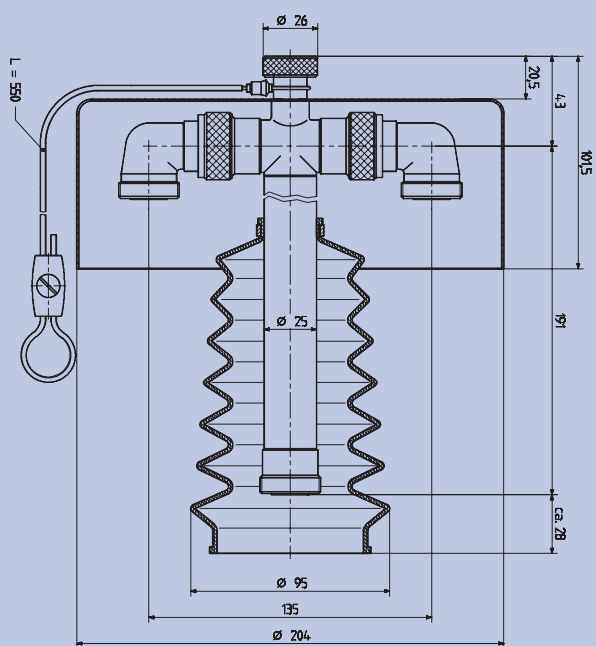
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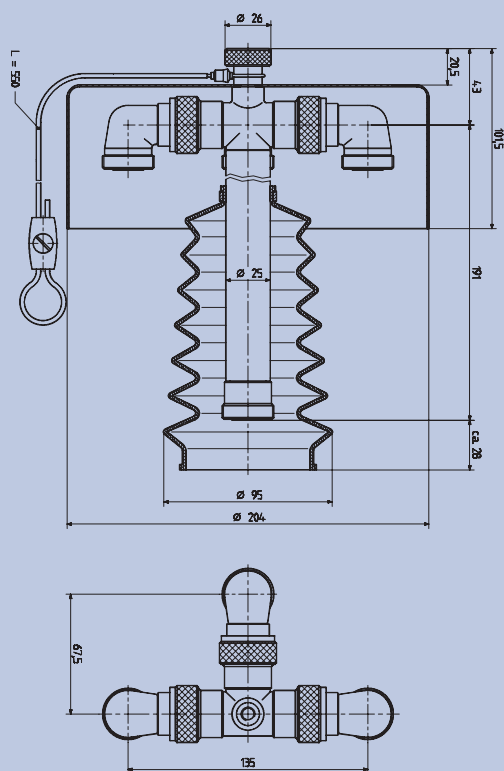
Type 5502.41.0021



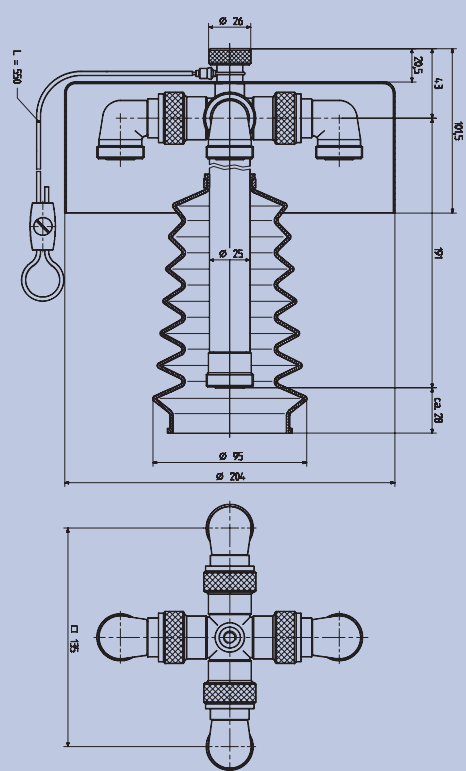
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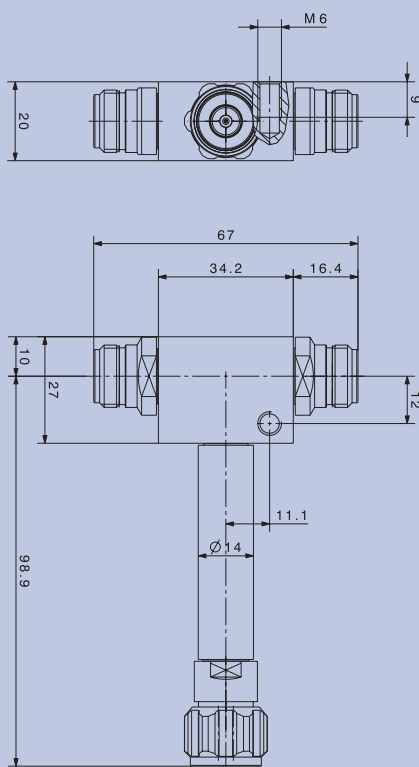
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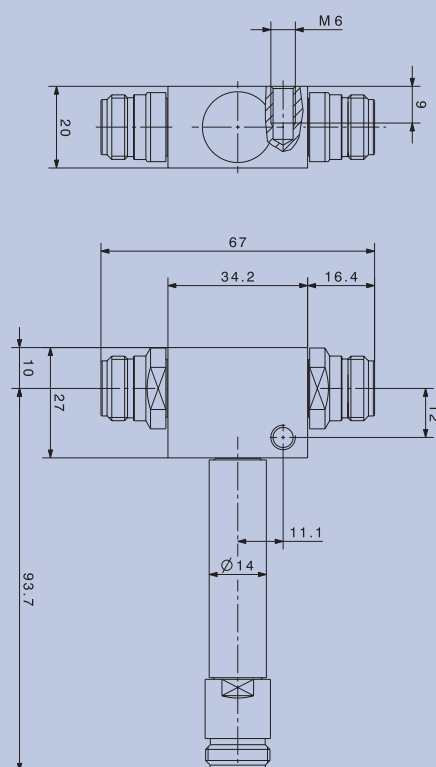
Type 5502.41.0024



Type 5502.41.0025



Type 5504.17.0004



Type 5504.17.0005

HUBER+SUHNER Power Splitters - Reflection → Conversion Table

VSWR	Rf	RL (dB)
1.010	0.0050	46.06
1.020	0.0099	40.09
1.030	0.0148	36.61
1.040	0.0196	34.15
1.050	0.0244	32.26
1.060	0.0291	30.71
1.070	0.0338	29.42
1.080	0.0385	28.30
1.090	0.0431	27.32
1.100	0.0476	26.44
1.110	0.0521	25.66
1.120	0.0566	24.94
1.130	0.0610	24.29
1.140	0.0654	23.69
1.150	0.0698	23.13
1.160	0.0741	22.61
1.170	0.0783	22.12
1.180	0.0826	21.66
1.190	0.0868	21.23
1.200	0.0909	20.83
1.210	0.0950	20.44
1.220	0.0991	20.08
1.230	0.1031	19.73
1.240	0.1071	19.40
1.250	0.1111	19.08
1.260	0.1150	18.78
1.270	0.1189	18.49
1.280	0.1228	18.22
1.290	0.1266	17.95
1.300	0.1304	17.69
1.310	0.1342	17.45
1.320	0.1379	17.21
1.330	0.1416	16.98
1.340	0.1453	16.75
1.350	0.1489	16.54
1.360	0.1525	16.33
1.370	0.1561	16.13
1.380	0.1597	15.94
1.390	0.1632	15.75

RL	Rf	VSWR
50.00	0.0032	1.006
49.00	0.0035	1.007
48.00	0.0040	1.008
47.00	0.0045	1.009
46.00	0.0050	1.010
45.00	0.0056	1.011
44.00	0.0063	1.013
43.00	0.0071	1.014
42.00	0.0079	1.016
41.00	0.0089	1.018
40.00	0.0100	1.020
39.00	0.0112	1.023
38.00	0.0126	1.025
37.00	0.0141	1.029
36.00	0.0158	1.032
35.00	0.0178	1.036
34.00	0.0200	1.041
33.00	0.0224	1.046
32.00	0.0251	1.052
31.00	0.0282	1.058
30.00	0.0316	1.065
29.00	0.0355	1.074
28.00	0.0398	1.083
27.00	0.0447	1.094
26.00	0.0501	1.106
25.00	0.0562	1.119
24.00	0.0631	1.135
23.00	0.0708	1.152
22.00	0.0794	1.173
21.00	0.0891	1.196
20.00	0.1000	1.222
19.00	0.1122	1.253
18.00	0.1259	1.288
17.00	0.1413	1.329
16.00	0.1585	1.377
15.00	0.1778	1.433
14.00	0.1995	1.499
13.00	0.2239	1.577
12.00	0.2512	1.671

Rf	RL (dB)	VSWR
0.005	46.02	1.010
0.010	40.00	1.020
0.015	36.48	1.030
0.020	33.98	1.041
0.025	32.04	1.051
0.030	30.46	1.062
0.035	29.12	1.073
0.040	27.96	1.083
0.045	26.94	1.094
0.050	26.02	1.105
0.055	25.19	1.116
0.060	24.44	1.128
0.065	23.74	1.139
0.070	23.10	1.151
0.075	22.50	1.162
0.080	21.94	1.174
0.085	21.41	1.186
0.090	20.92	1.198
0.095	20.45	1.210
0.100	20.00	1.222
0.105	19.58	1.235
0.110	19.17	1.247
0.115	18.79	1.260
0.120	18.42	1.273
0.125	18.06	1.286
0.130	17.72	1.299
0.135	17.39	1.312
0.140	17.08	1.326
0.145	16.77	1.339
0.150	16.48	1.353
0.155	16.19	1.367
0.160	15.92	1.381
0.165	15.65	1.395
0.170	15.39	1.410
0.175	15.14	1.424
0.180	14.89	1.439
0.185	14.66	1.454
0.190	14.42	1.469
0.195	14.20	1.484

VSWR = Voltage Standing Wave Ratio
 Rf = Reflection Coefficient
 RL = Return Loss

HUBER+SUHNER – the one-stop shop

HUBER+SUHNER is a leading global supplier of components and systems for electrical and optical connectivity in communications, industrial and transportation markets. HUBER+SUHNER can draw on core competencies in the areas of high frequency technology, fibre optics, cables and

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



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

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It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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