

CABLE GLANDS

Cable glands and plastic accessories

TECHNICAL CHARACTERISTICS

Regulatory Compliance:

Cable Glands: EN 50262; IEC 62444

Metric pitch: IEC/EN 60243

PG pitch: DIN 40430

Couplings and cable glands: EN 61386-1 e EN 60670-1 as applicable

Temperature of installation: Min -25°C Max +65°C (cable glands and coupling conduit/box IP66)

Min -5°C Max +60°C (grommets and coupling conduit/box IP55)

Insulation resistance: >100MΩ a 500 V

Protection degree: IP44; IP55; IP66; IP68

Rated voltage: 2000 V a 50 Hz

Glow Wire Test: 650 °C cable glands

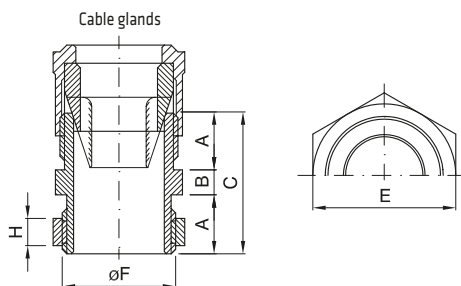
750 °C couplings and grommets

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Agent	Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
		Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol		
Cable glands	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Limited resistance
Couplings and cable glands	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Limited resistance

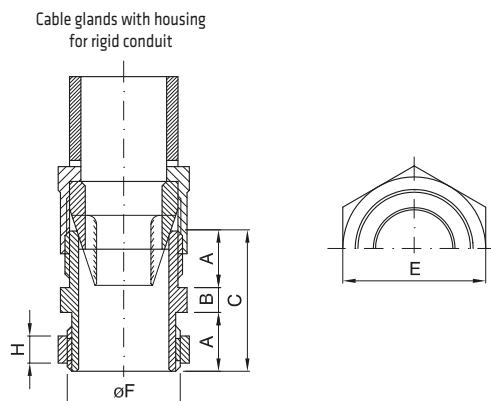
Dimension tables

PG PITCH CABLE GLANDS - IP66



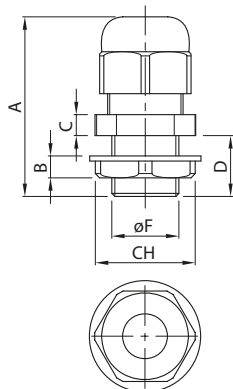
Code	PG pitch	A	B	C	E	H	øF
GW 52 001	7	8	3	19	16	3.5	12.5
GW 52 002	9	9	3.5	21.5	19	4	15.2
GW 52 003	11	10.5	4	25	22	5	18.6
GW 52 004	13.5	12	4.5	28.5	24	5.5	20.4
GW 52 005	16	13	5	31	27	6	22.5
GW 52 006	21	14	6	34	32	6.5	28.3
GW 52 007	29	15	8	38	41	8	37
GW 52 008	36	18	9	45	55	9	47
GW 52 009	42	20	9	49	62	10	54
GW 52 010	48	22	9	53	66	14.5	59.3

CABLE GLANDS PG STEP PITCH WITH HOUSING FOR RIGID CONDUITS



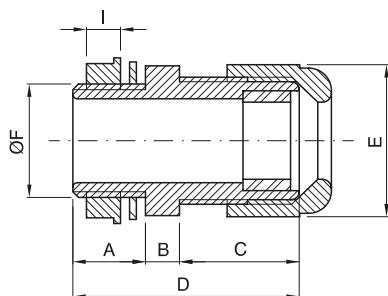
Code	PG pitch	A	B	C	E	H	ØF
GW 52 024	13.5	12	4.5	28.5	24	5.5	20.4
GW 52 025	16	13	5	31	27	6	22.5
GW 52 026	21	14	6	34	32	6.5	28.3
GW 52 027	29	15	8	38	41	8	37
GW 52 028	36	18	9	45	55	9	47
GW 52 029	42	20	9	49	62	10	54

PG PITCH CABLE GLANDS - IP68



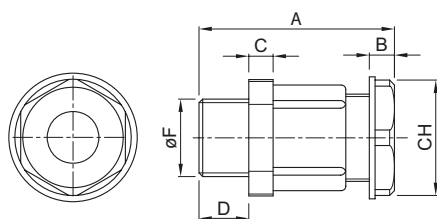
Code	PG pitch	A	B	C	D	CH	ØF
GW 52 071	7	31	5.1	4.9	7.8	19	12.5
GW 52 072	9	33.5	5.1	5	7.9	21	15.2
GW 52 073	11	38	5.1	5	7.9	24	18.6
GW 52 074	13.5	38	6	5	9	27	20.4
GW 52 075	16	41	6	6	10	30	22.5
GW 52 076	21	46	7	6	11	36	28.3
GW 52 077	29	51	8.1	7	10.5	46	37
GW 52 078	36	66	8	7.8	14.6	59	47
GW 52 079	42	65.5	7.8	8.9	14.8	65	54
GW 52 080	48	65.5	8	8.8	15.7	70	59.3

METRIC PITCH CABLE GLANDS - IP68



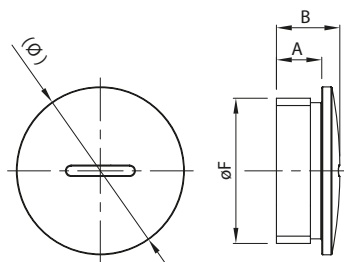
Code	ØF	A	B	C	D	E	I
GW 52 042	M12x1.25	8	5	14	27	17	5
GW 52 043	M16x1.5	15	5	18	38	22	5
GW 52 044	M20x1.5	13	6	22	41	27	6
GW 52 045	M25x1.5	14.5	6	22	42.5	33	7
GW 52 046	M32x1.5	15	7	27	49	42	8
GW 52 047	M40x1.5	18	9	33	60	54	8
GW 52 048	M50x1.5	14.5	9	34.5	58	61	8
GW 52 049	M63x1.5	25.5	7.8	44	77.3	75.7	11

PG PITCH CABLE GLANDS - IP54



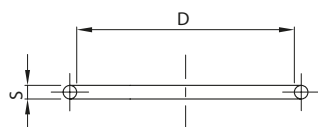
Code	PG pitch	A	B	C	D	CH	øF
GW 52 081	7	31.3	6.1	6	7.9	13	12.5
GW 52 082	9	32.8	6.1	6.5	8.2	16	15.2
GW 52 083	11	34.4	6	6.2	7.8	19	18.6
GW 52 084	13.5	37	6	6.2	9	21	20.4
GW 52 085	16	40	7	7.2	10	23	22.5
GW 52 086	21	45.5	8.3	8	11.3	30	28.3
GW 52 087	29	51.3	9.3	7.8	11.3	40	37
GW 52 088	36	64.2	10	10	13	49	47

CLOSURE CAPS - IP65



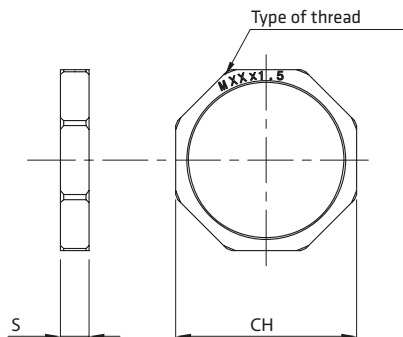
Code	M/PG pitch	(Ø)	A	B	øF
GW 52 372	M12	15	6	8.4	12
GW 52 373	M16	20	7	10	16
GW 52 374	M20	25	6	9	20
GW 52 375	M25	30	10	14	25
GW 52 376	M32	37	10	14	32
GW 52 377	M40	46	10	15	40
GW 52 378	M50	56	13.5	20	50
GW 52 379	M63	70	15	20	63
GW 52 361	PG7	15	6	8	12.5
GW 52 362	PG9	19	6	8.5	15.2
GW 52 363	PG11	22	6	8.5	18.6
GW 52 364	PG13.5	25	6	8.5	20.4
GW 52 365	PG16	27	6	8.5	22.5
GW 52 366	PG21	33	8	12	28.3
GW 52 367	PG29	44.5	8	11	37
GW 52 368	PG36	55.6	10	14	47
GW 52 369	PG42	62	10	16	54
GW 52 370	PG48	68	12	17	59.3

O-RING FOR CLOSURE CAPS



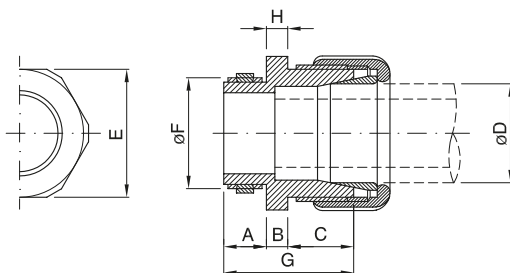
Code	M/PG pitch	D	S
GW 52 452	M12	10	1.5
GW 52 453	M16	12	1.5
GW 52 454	M20	17	1.8
GW 52 455	M25	22	2
GW 52 456	M32	29	2
GW 52 457	M40	35	2
GW 52 458	M50	43	2
GW 52 459	M63	55	2
GW 52 441	PG7	10	12.5
GW 52 442	PG9	12	15.2
GW 52 443	PG11	16	18.6
GW 52 444	PG13.5	17	20.4
GW 52 445	PG16	18	22.5
GW 52 446	PG21	26	28.3
GW 52 447	PG29	33	37
GW 52 448	PG36	43	47
GW 52 449	PG42	50	54
GW 52 450	PG48	55	59.3

FIXING NUTS



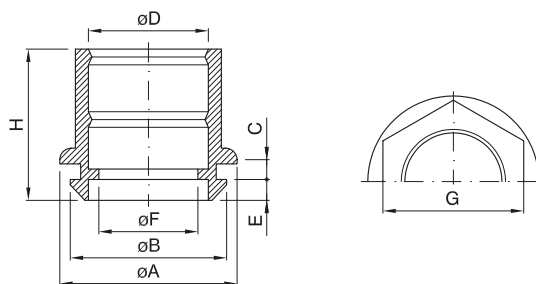
Code	M/PG pitch	S	CH
GW 52 352	M12	5	18
GW 52 353	M16	5	22
GW 52 354	M20	6	26
GW 52 355	M25	6	32
GW 52 356	M32	7	41
GW 52 357	M40	7	50
GW 52 358	M50	8	60
GW 52 359	M63	8	75
GW 52 341	PG7	5	12.5
GW 52 342	PG9	5	15.2
GW 52 343	PG11	5	18.6
GW 52 344	PG13.5	6	20.4
GW 52 345	PG16	6	22.5
GW 52 346	PG21	7	28.3
GW 52 347	PG29	7	37
GW 52 348	PG36	8	47
GW 52 349	PG42	8	54
GW 52 350	PG48	8	59.3

CONDUIT/BOX COUPLINGS - IP66



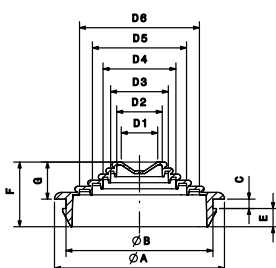
Code	PG pitch	A	B	C	G	H	øD	E	øF
GW 50 415	13.5	11	4	12.5	27.5	6	16	23	20.4
GW 50 416	16	12.5	5	15.5	33	6.5	20	29	22.5
GW 50 417	21	12.5	5	18.5	36	8	25	40	28.3
GW 50 418	29	14	6	22	42	9	32	54	37
GW 50 419	36	16	8	26	50	10	40	59	47
GW 50 420	42	18	10	30	58	14.5	50	64	54

CONDUIT/BOX COUPLINGS - IP44



Code	øA	øB	C	øD	E	øF	G	H
GW 50 421	31	23	2	16	4.5	12	22	26
GW 50 422	31	23	2	20	4.5	16	24	26
GW 50 423	36.5	29	2.5	20	4.5	16	24	32
GW 50 424	36.5	29	2.5	25	4.5	21	30	32
GW 50 425	45	37	3	32	5	28	36	40
GW 50 426	52	37	3	40	5	31	46	50
GW 50 427	62	48	3.5	50	5	41.5	55	52

CABLE GLANDS - IP55



Code	øA	øB	C	E	F	G	D1	D2	D3	D4	D5	D6
GW 50 428	23.5	20	3	2.5	14	8.5	4.5	16	-	-	-	-
GW 50 429	29.6	23.4	2.2	3.9	12.1	6	4-14	16	20	-	-	-
GW 50 430	34.5	29.2	2.5	4.1	14.6	8	4-14	16	20	25	-	-
GW 50 431	45	37.9	3.1	4.1	17.4	10.2	4-14	16	20	25	32	-
GW 50 432	56	48.4	3.1	6	21.3	12.2	4-14	16	20	25	32	40

METAL CABLE GLANDS AND ACCESSORIES

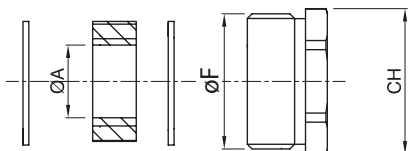
TECHNICAL CHARACTERISTICS

Regulatory Compliance:
Cable Glands: EN 50262; IEC 62444
Metric pitch: IEC/EN 60243
PG pitch: DIN 40430

Material: nickel-plated brass;
Temperature of installation: Min -30 °C Max +100 °C
Protection degree: IP65; IP68 at 3 bar

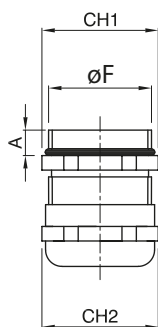
Dimension tables

PG/M CABLE GLANDS - IP65



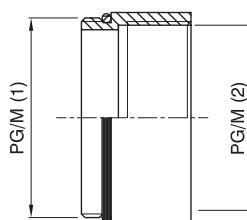
Code	M/PG pitch	CH	Sealing gasket 1 Ø A	Sealing gasket 2 Ø A	Sealing gasket 3 Ø A	Sealing gasket 4 Ø A	ØF
GW 76 841	PG11	18	7.5	10	12.5		18.6
GW 76 842	PG13.5	20	7.5	10	12.5		20.4
GW 76 843	PG16	22	7.5	10	12.5	15	22.5
GW 76 844	PG21	28	10	13	16	19	28.3
GW 76 845	PG29	37	18	21	24	27	37
GW 76 846	PG36	47	24	27	30	33	47
GW 76 847	PG42	54	30	33	36	39	54
GW 76 848	M20	20	4	7	10	13	20
GW 76 849	M25	25	8.5	11.5	14.5	17.5	25
GW 76 850	M32	32	16	19	22	25	32
GW 76 851	M40	40	23	26	29	32	40
GW 76 852	M50	50	30	33	36	39	50

PG/M METAL CABLE GLANDS - IP68



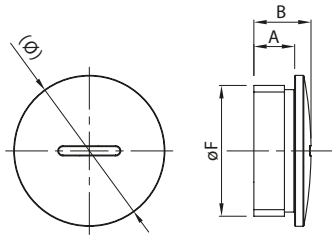
Code	M/PG pitch	CH1	CH2	A	ØF
GW 76 825	PG11	20	20	6	18.6
GW 76 826	PG13.5	22	22	6.5	20.4
GW 76 827	PG16	24	24	6.5	22.5
GW 76 828	PG21	30	30	7	28.3
GW 76 829	PG29	40	40	8	37
GW 76 830	PG36	50	50	9	47
GW 76 897	PG42	60	60	9	54
GW 76 894	M12	14	14	6	12
GW 76 896	M16	20	20	6	16
GW 76 831	M20	24	24	6.5	20
GW 76 832	M25	30	30	7	25
GW 76 833	M32	40	40	8	32
GW 76 834	M40	50	50	9	40
GW 76 835	M50	60	60	9	50
GW 76 895	M63	68	68	10	63

PG/M EXTENSIONS



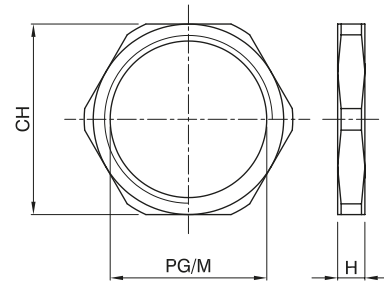
Code	PG/M1	PG/M2
GW 76 865	PG11	PG13.5
GW 76 866	PG13.5	PG16
GW 76 867	PG16	PG21
GW 76 868	PG21	PG29
GW 76 869	PG29	PG36
GW 76 870	M20	M25
GW 76 871	M25	M32
GW 76 872	M32	M40
GW 76 873	M40	M50

PG/M CLOSURE CAPS



Code	M/PG pitch	A	B	Ø C	Ø F
GW 76 972	M12	6.5	9.5	14	12
GW 76 973	M16	6	9	20	16
GW 76 975	M20	6.5	8.5	22	20
GW 76 976	M25	7	10	27	25
GW 76 977	M32	8	11	34	32
GW 76 978	M40	9	13	44	40
GW 76 979	M50	10	15	54	50
GW 76 974	M63	10	16	68	63
GW 76 980	PG11	6	9	20	18.6
GW 76 981	PG13.5	6.5	9.5	22	20.4
GW 76 982	PG16	6.5	9.5	24	22.5
GW 76 983	PG21	7	11	30	28.3
GW 76 984	PG29	8	12	39	37
GW 76 985	PG36	9	15	50	47
GW 76 986	PG42	10	16	57	54

PG/M FIXING NUTS



Code	M/PG pitch	CH	H
GW 76 966	M12	15	2.8
GW 76 951	M16	19	2.8
GW 76 952	M20	23	3
GW 76 953	M25	29	3.5
GW 76 954	M32	36	4
GW 76 955	M40	45	4.5
GW 76 956	M50	55	5.5
GW 76 967	M63	70	6
GW 76 957	PG11	21	3
GW 76 958	PG13.5	23	3
GW 76 959	PG16	26	3
GW 76 960	PG21	32	3.5
GW 76 961	PG29	41	4
GW 76 962	PG36	51	5
GW 76 963	PG42	60	5

METAL CABLE GLANDS FOR ATEX ENVIRONMENTS

Atex

TECHNICAL CHARACTERISTICS

Regulatory Compliance:

EN 50262; IEC 62444; EN 60079-0; EN 60079-7; EN 60079-31

Metric pitch: IEC/EN 60243

PG pitch: DIN 40430

Material: Nickel plated brass (metal cable glands)

Installation Temperature: Min -20°C Max +95°C

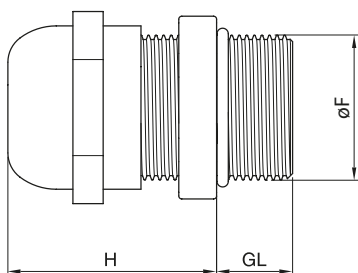
Degree of protection: IP68 - 10 bar

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Agent	Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
		Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol		
Metal cable glands	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

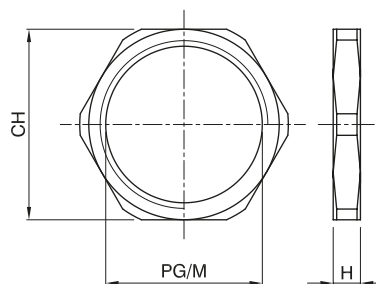
Dimension tables

CABLE GLANDS IN NICKEL-PLATED BRASS - PG AND METRIC PITCH - IP68



Code	M/PG pitch	H	GL	øF
GW 76 901	PG7	19	10	12.5
GW 76 902	PG9	21	10	15.2
GW 76 903	PG11	24	10	18.6
GW 76 904	PG13.5	23	10	20.4
GW 76 905	PG16	23	10	22.5
GW 76 906	PG21	24	12	28.3
GW 76 907	PG29	29	12	37
GW 76 908	PG36	35	15	47
GW 76 909	PG42	37	15	54
GW 76 910	PG48	38	15	59.3
GW 76 921	M12	19	10	12
GW 76 922	M16	22	10	16
GW 76 923	M20	24	10	20
GW 76 924	M25	26	12	25
GW 76 925	M32	31	12	32
GW 76 926	M40	37	15	40
GW 76 927	M50	37	15	50
GW 76 928	M63	38	15	63

FIXING NUTS NICKEL-PLATED BRASS PG AND METRIC STEP



Code	PG/M	H	CH
GW 76 941	PG7	2.8	15
GW 76 942	PG9	2.8	18
GW 76 957	PG11	3	21
GW 76 958	PG13.5	3	23
GW 76 959	PG16	3	26
GW 76 960	PG21	3.5	32
GW 76 961	PG29	4	41
GW 76 962	PG36	5	51
GW 76 963	PG42	5	60
GW 76 943	PG48	5.5	64
GW 76 949	M12	2.8	15
GW 76 951	M16	2.8	19
GW 76 952	M20	3	23
GW 76 953	M25	3.5	29
GW 76 954	M32	4	36
GW 76 955	M40	4.5	45
GW 76 956	M50	5.5	55
GW 76 950	M63	6.0	70

ACCESSORIES FOR FIXING CONDUITS AND CABLES

Plastic fixing for pipes and cables

TECHNICAL CHARACTERISTICS

Standard: IEC EN 61386-1 (when applicable);

Installation temperature: min. -5°C; max. +60°C

Insulation resistance: > 100 MΩ at 500V

Installation type: on wall or ceiling

Dielectric rigidity: 2000V at 50 Hz

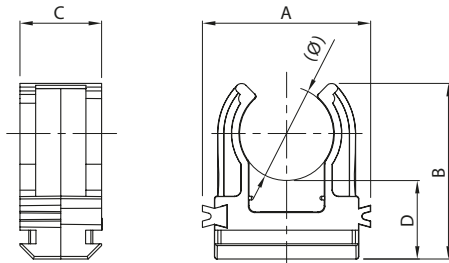
Glow wire test: 750°C

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Agent	Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
		Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol		
50 AC Supports	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Limited resistance
50 AC Accessories	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant

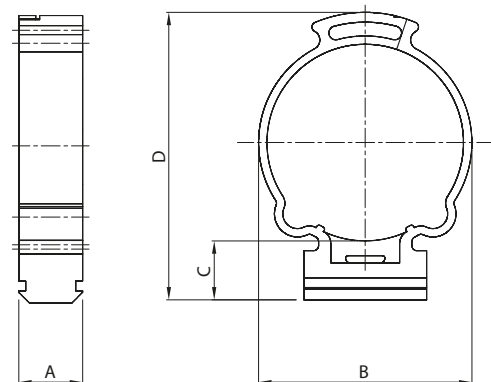
Dimension tables

MEDIA RELEASE POLYMER SHOCKPROOF



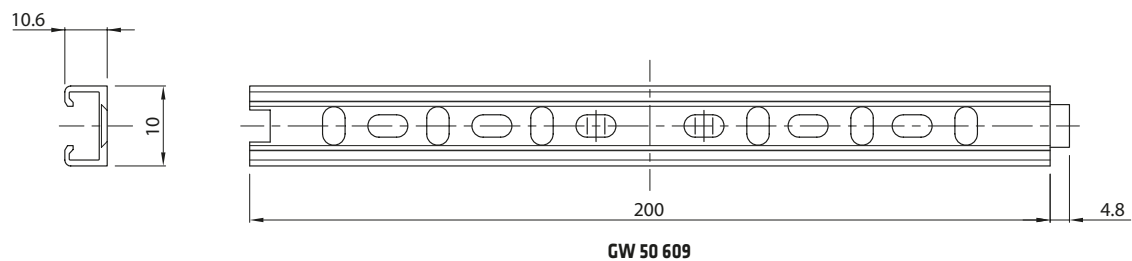
Code	Ø Pipe	A	B	C	D
GW 50 601	16	27	28	13	12.5
GW 50 602	20	31	31	13	12.5
GW 50 603	25	36	34	13	12.5
GW 50 604	32	42	38	13	12.5
GW 50 628	40	51	44	13	12.5
GW 50 629	50	63	51	13	12.5

SUPPORTS IN POLYMER SHOCK COLLAR

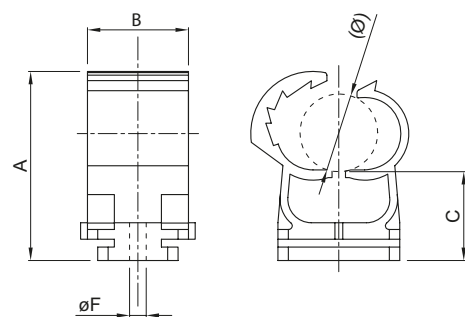


Code	Ø Pipe	A	B	C	D
GW 50 605	16	13	25	13	37
GW 50 606	20	13	26	13	43
GW 50 607	25	13	31	13	47
GW 50 608	32	13	38	13	55
GW 50 630	40	13	47	13	61
GW 50 631	50	13	57	13	71

MODULAR LOCK-JOINT RAIL TO FIX SHOCKPROOF POLYMER SUPPORTS

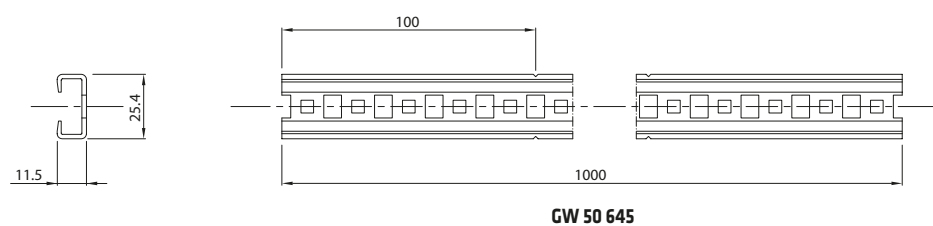


COLLAR SUPPORTS WITH AUTOMATIC CLIP-FIXING

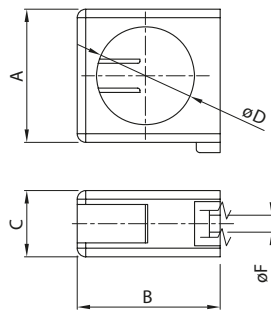


Code	Ø Pipe	A	B	C	D
GW 50 641	16	37	20	9	4.4
GW 50 642	20 - 25	47		14 - 10	
GW 50 643	25 - 32	53		14 - 9	
GW 50 644	40	68		11	

RAIL FOR COLLAR SUPPORTS WITH AUTOMATIC CLIP-FIXING

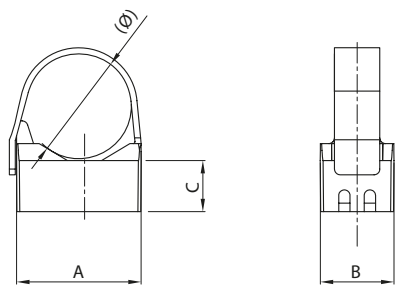


MULTI-DIAMETER CLAMP SUPPORTS

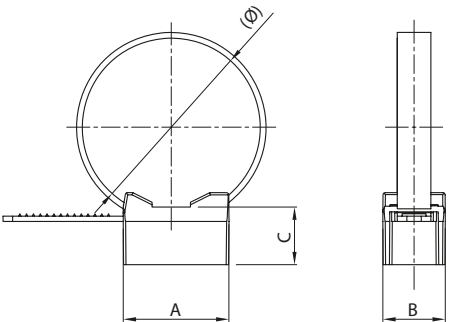


Code	Diameter	$\varnothing D$	$\varnothing F$	A	B	C	D
GW 50 651	16-20	23	4	30.5	33.7	15.7	51.6
GW 50 652	25-32	49	4	45	48.9	15.7	66.7
GW 50 653	40-50	54	4	69.3	72.3	16.8	82.4

FIXING COLLAR

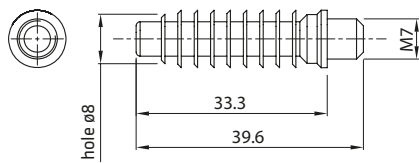


Code	$\varnothing$ Pipe	A	B	C
DX 51 120	16-20	23	13	9

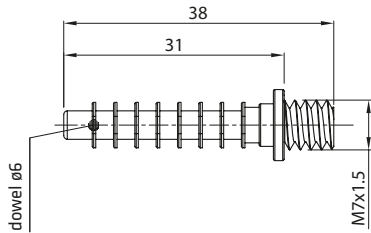


Code	$\varnothing$ Pipe	A	B	C
DX 51 232	16 - 32	21	13	12
DX 51 263	25 - 63	42		

FIXING DOWELS FOR COLLAR

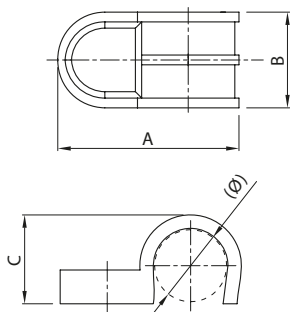


DX 51 308



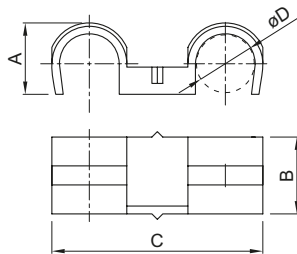
DX 51 306

SINGLE CLIP WITHOUT NAIL



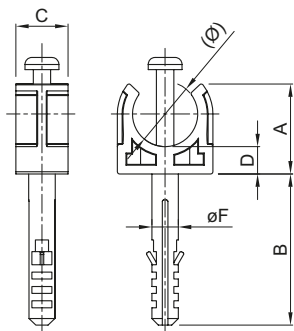
Code	Ø Pipe	A	B	C
GW 50 671	16	41	23	18
GW 50 672	20	45		22
GW 50 673	25	48		26.5

DOUBLE CLIP WITHOUT NAIL



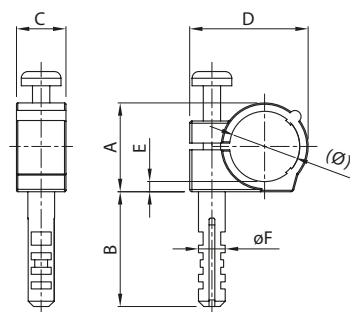
Code	Diameter	A	B	C
GW 50 681	16	16	22.6	58
GW 50 682	20	21	22.6	62
GW 50 683	25	26	22.6	70

SNAP-ON SUPPORT WITH BUILT-IN WALL PLUG



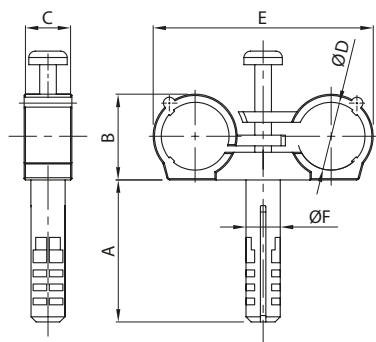
Code	Ø Pipe	Ø F	A	B	C	D
GW 50 706	16	6	21	31	12	6
GW 50 707	20	6	23.5	31	12	6
GW 50 708	25	6	27	31	12	6
GW 50 709	32	8	39	41	14	10

COLLAR SUPPORT WITH BUILT-IN WALL PLUG



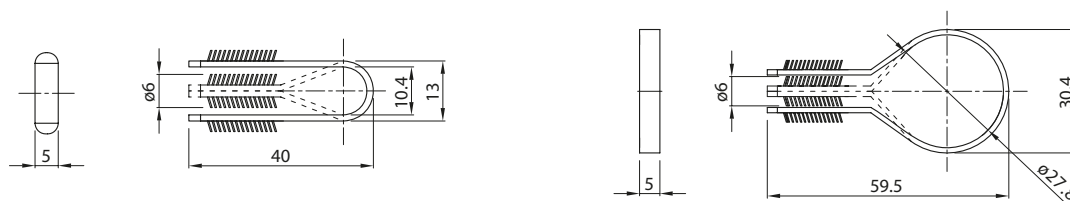
Code	Ø Pipe	A	B	C	D	E	(Ø) F
GW 50 716	16	21	26	11	27	2.5	6
GW 50 717	20	28	31	13.5	37	4	8
GW 50 718	25	36	41	18	48		10

DOUBLE COLLAR SUPPORT WITH BUILT-IN WALL PLUG

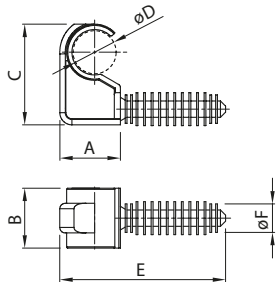


Code	Ø D	Ø F	A	B	C	E
GW 50 726	16.3	8	33.5	21	11	51.6
GW 50 727	20.4	10	43.5	28.8	13.5	66.7
GW 50 728	26	10	43.5	35.9	18	82.4

TIE SUPPORT WITH BUILT-IN WALL PLUG

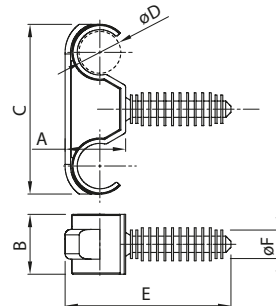


SINGLE CLIP WITH BUILT-IN WALL PLUG



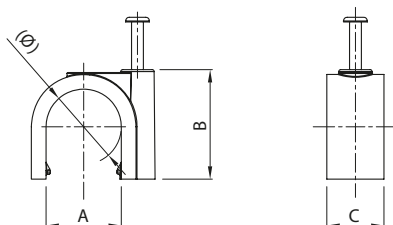
Code	Diameter	A	B	C	E	F
GW 50 776	16	20	20	33.3	54.8	8
GW 50 777	20	23.7	20	35.5	58.5	8
GW 50 778	25	27.5	20	40.3	62.4	8

DOUBLE CLIP WITH BUILT-IN WALL PLUG



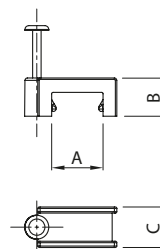
Code	Diameter	A	B	C	E	F
GW 50 786	16	20	20	54.8	56.1	8
GW 50 787	20	23.7	20	58.5	60.1	8
GW 50 788	25	27.5	20	62.4	70.1	8

CLIPS WITH HARDENED STEEL PIN



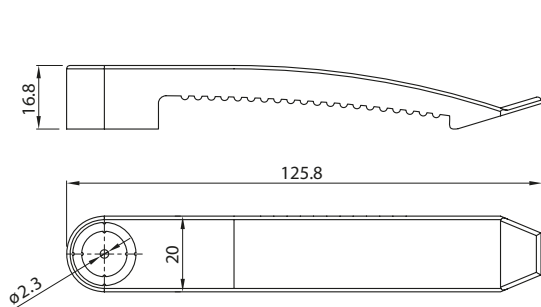
Code	Color	Ø Cable	A	B	C
GW 50 610	Grey	3 - 4	4	6.5	6.4
GW 50 611	Grey	5 - 6	5.4	9.4	6.5
GW 50 621	White				
GW 50 612	Grey	7 - 8	8	13	6.9
GW 50 622	White				
GW 50 613	Grey	9 - 10	9.3	13.8	6.8
GW 50 614	Grey	11 - 12	11	15.8	9
GW 50 615	Grey	13 - 14	14	20	9
GW 50 616	Grey	15 - 16	15.8	21	12
GW 50 617	Grey	19 - 20	18.4	22.8	11
GW 50 618	Grey	21 - 22	20.3	27.5	12.3
GW 50 619	Grey	25 - 26	22.5	31.2	13
GW 50 620	Grey	31 - 32	33.3	39.3	14

CLIPS WITH PIN OF HARDENED STEEL

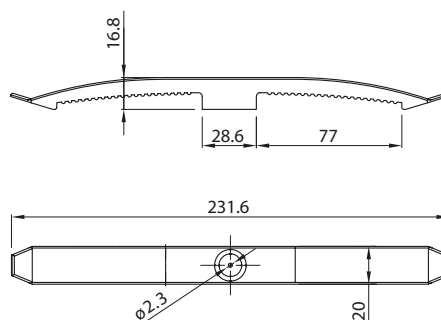


Code	Ø Cable	A	B	C
GW 50 623	5-6	5.8	5.8	7
GW 50 624	7-8	7.7	6.7	7.5
GW 50 625	10-11	10.8	8	8.7

FIXING HANGER FOR CABLES



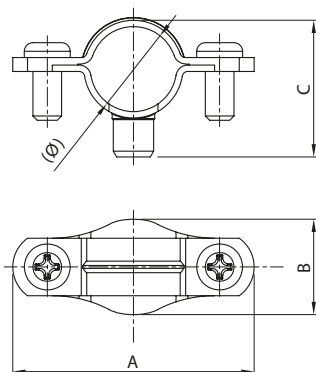
GW 50 691



GW 50 692

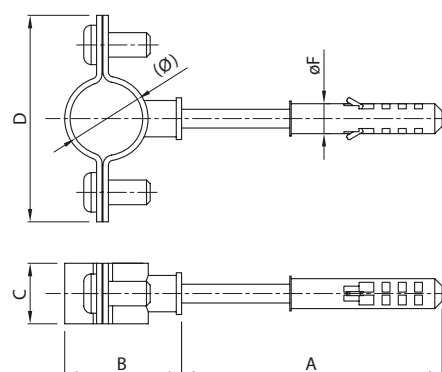
Metal fixing devices

GALVANIZED STEEL COLLARS



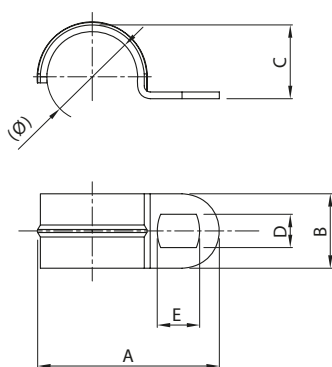
(Ø) Conduit/Cable	Code	A	B	C
10-11	GW 50 801	39	15	15
12-13	GW 50 802	37.6	19	15.2
14-15	GW 50 803		20.1	15.4
16-17	GW 50 804	42.6	21	16.3
19-20	GW 50 805	45.5	25	16
21-22	GW 50 806	45	26.8	16.5
25-26	GW 50 807	47.5	31	15.8
31-32	GW 50 808	55.4	37.4	15.3
38-40	GW 50 809	64.8	44.9	16.2
48-50	GW 50 810	76.5	55	15.4

GALVANIZED STEEL COLLAR WITH INCORPORATED WALL PLUG



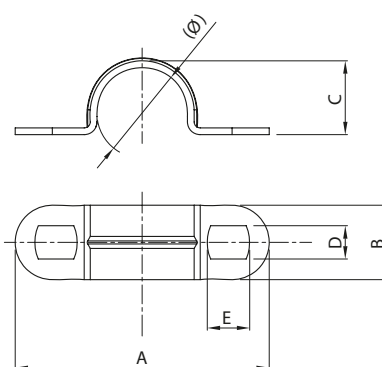
(Ø) Conduit/Cable	Code	A	B	C	D	(Ø) F
16-17	GW 50 841	55.2	23.8	12.2	42	6
19-20	GW 50 842	55.5	28.5	12.2	45	
25-26	GW 50 843	76.8	33.2	14	48.7	8
31-32	GW 50 844	76.2	41.8	12.2	57.4	
38-40	GW 50 845	77.1	46.9	16.2	62.7	
48-50	GW 50 846	76.8	58.2	16.2	78.5	

GALVANIZED STEEL CLIPS



(Ø) Conduit/Cable	Code	A	B	C	D	E
10÷11	GW 50 811	33.3	14	11	6.5	12
12-13	GW 50 812	39		12.7		
14-15	GW 50 813	35		14.8		
16-17	GW 50 814	43.6		16.4		
19-20	GW 50 815	46	16	21.5	6.5	14
21-22	GW 50 816	46.5		23.8		
25-26	GW 50 817	49.3		26.8		
31-32	GW 50 818	59.4		33.5		
38-40	GW 50 819	68.7		42.8		
48-50	GW 50 820	76		54.6		

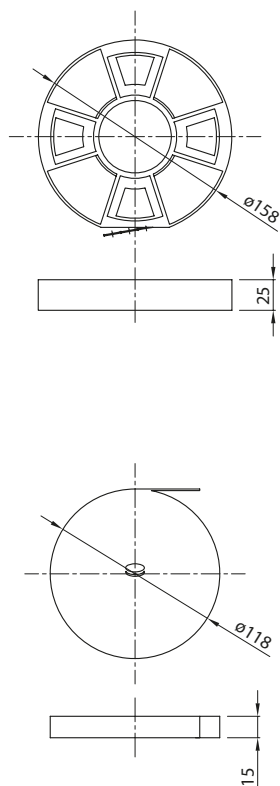
GALVANIZED STEEL U-BOLTS



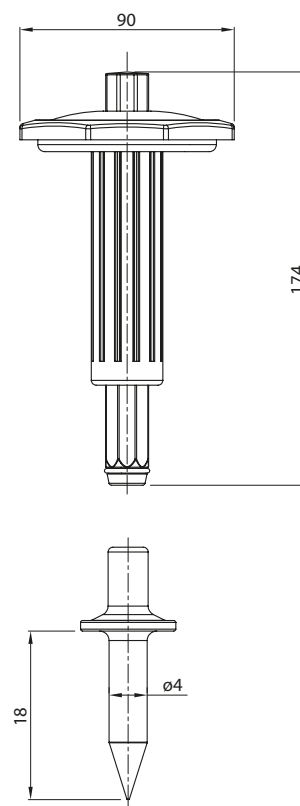
(Ø) Conduit/Cable	Code	A	B	C	D	E
10-11	GW 50 821	42.9	10	11.8	4.8	7
12-13	GW 50 822	51.8	12	13.8		
14-15	GW 50 823	50.8		15.8		
16-17	GW 50 824	53.5		17.3		
19-20	GW 50 825	56.5	14	21.5	6.5	10
21-22	GW 50 826	63.4		23.6		
25-26	GW 50 827	68		27		
31-32	GW 50 828	78		33.5		
38-40	GW 50 829	83.8		41.6		
48-50	GW 50 830	95.8		53		

Fixing for corrugated conduits

FIXING STRAPS FOR CONDUITS

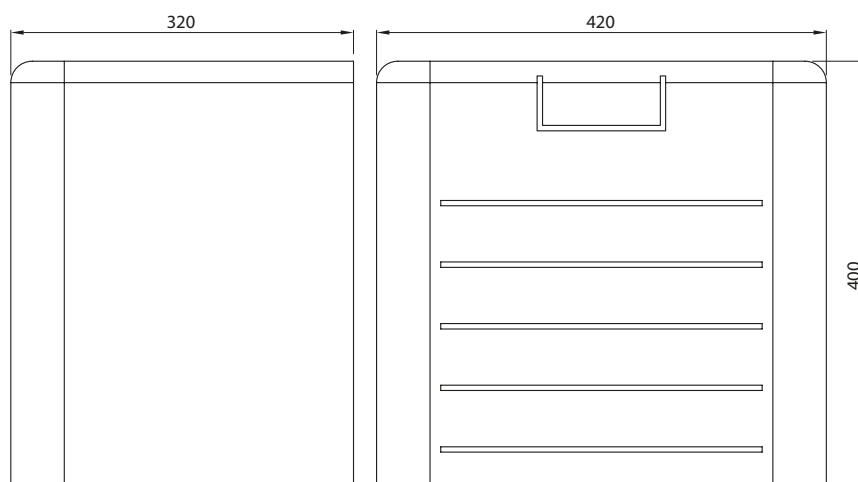


KIT FOR MANUAL RIVETING



Dispenser for accessories

DISPENSER CASE



GW 52 420

52 FS - CABLE TIES

TECHNICAL CHARACTERISTICS

Standard: IEC 62275; EN 62275

Fume corrosiveness: < 5%

Flame resistance in compliance with UL 94: V2

Service temperature range: -40°C to +85°C (max. peaks 135°C)

Material: polyamide 66 (standard wiring), halogen-free in accordance with CEI EN 60754-2 (CEI EN 50267-2-2) polyamide 66 charged with "A" carbonate (heavy duty wiring)

Oxygen limit index: 27% (standard wiring);
29% (heavy duty wiring)

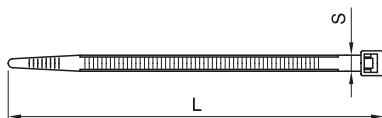
Minimum installation temperature: -5°C

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol		
Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Dimension tables

STANDARD CABLE TIES AND HEAVY DUTY OUTDOOR CABLE TIES



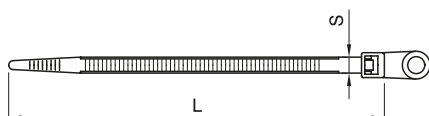
Code	S (mm)	L (mm)	Code	S (mm)	L (mm)	Code	S (mm)	L (mm)	Code	S (mm)	L (mm)					
GW 52 231	2.4	75	GW 52 235	3.6	150	GW 52 239	4.8	280	GW 52 243	9	914					
GW 52 251			GW 52 255			GW 52 259			GW 52 263							
GW 52 232	2.5	96	GW 52 236	3.6	203	GW 52 240	4.8	368								
GW 52 252			GW 52 256			GW 52 260										
GW 52 233	2.5	140	GW 52 237	3.6	292	GW 52 241	7.6	380								
GW 52 253			GW 52 257			GW 52 261										
GW 52 234	2.5	203	GW 52 238	4.8	190	GW 52 242	9	610								
GW 52 254			GW 52 258			GW 52 262										

RE-OPENABLE CABLE TIES



Code	S (mm)	L (mm)
GW 52 271	7.6	150
GW 52 272	7.6	200
GW 52 273	7.6	300

CABLE TIES WITH EYELET



Code	S (mm)	L (mm)	hole Ø (mm)
GW 52 281	2.5	100	ø 4.8
GW 52 282	2.5	110	ø 4.8

52 FS - OUTDOOR TIES - LOW TEMPERATURE RESISTANCE (L.T.R.)**TECHNICAL CHARACTERISTICS**

Standard: IEC 62275; EN 62275

Humidity absorbed: ≤1%

Flame resistance in compliance with UL 94: HB

Dielectric rigidity 28 kV/mm

Service temperature range: -45°C to +85°C (max. peaks* 120°C)

Range of installation temperature: -30°C to +60°C

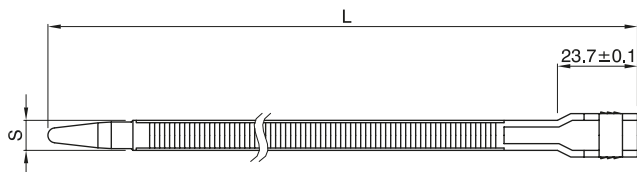
Material: polyamide 12, halogen-free in accordance with CEI EN 60754-2 (CEI EN 50267-2-2)

Oxygen limit index: 22.5%

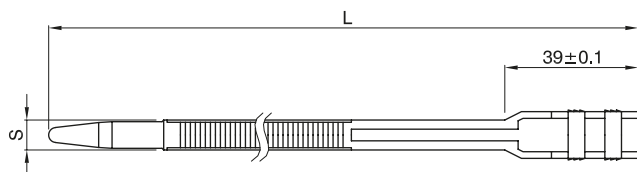
*For short periods.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol		
Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Dimension tables**SINGLE-HEAD L.T.R. TIES**

Code	S (mm)	L (mm)
GW 52 201	6	115
GW 52 202	6	180
GW 52 203	6	290
GW 52 204	9	180

DOUBLE-HEAD L.T.R. TIES

Code	S (mm)	L (mm)
GW 52 205	9	265
GW 52 206	9	360
GW 52 207	9	510
GW 52 208	9	760

44 MS - MOVABLE TERMINALS AND MODULAR TERMINAL BLOCKS

TECHNICAL CHARACTERISTICS	
Standard: IEC 60998-1; IEC 60998-2-1; EN 60998-1; EN 60998-2-1	Heat resistance: thermo-pressure with ball 125°C
Insulation voltage: 450V	Resistance to abnormal heat and fire: Glow wire test 850°C
Protection against direct contact: IP XXB	Maximum operating temperature: 85°C

44 MM - MULTI-POLE TERMINAL BLOCKS

TECHNICAL CHARACTERISTICS	
Standard: IEC 60998-1; IEC 60998-2-1; EN 60998-1; EN 60998-2-1	Heat resistance: thermo-pressure with ball 125°C
Insulation voltage: 450V (terminal blocks with press-on fixing); 750V (terminal blocks with screw-on fixing)	Resistance to abnormal heat and fire: Glow wire test 850°C
Protection against direct contact: IP XXA	Maximum operating temperature: 85°C

Dimension tables

MULTI-POLE TERMINAL BLOCKS

Technical drawings of multi-pole terminal blocks showing dimensions and views:

- Top View (Left):** Shows a 4-pole terminal block with dimensions: 10, 10, 10, 10 (pole spacing), 29 (height), 3.8 (height), 9.2 (height), 3.5 (height), 64.5 (height), 3.8 (height), 3.5 (height), 3.8 (height), 3.5 (height), 3.8 (height).
- Front View (Bottom Left):** Shows a 4-pole terminal block with dimensions: 56 (width), 63 (width).
- Side View (Top Right):** Shows a 4-pole terminal block with dimensions: 3.5 (height), E (height).
- Front View (Bottom Right):** Shows a 4-pole terminal block with dimensions: A (width), B (width), D (width).

Code	Section	A	B	C	D	E
GW 44 609	3 x 4/6 mm ²	48	30	28	22.5	3.3
GW 44 610	5 x 4/6 mm ²					
GW 44 611	3 x 10/16 mm ²	88	33	33	22.5	4.8
GW 44 612	5 x 10/16 mm ²					
GW 44 613	3 x 25/35 mm ²	115	40	49	32.5	6.8
GW 44 614	5 x 25/35 mm ²					

CONNECTION CAPACITY						
Code	No. poles	Connection capacity	Screw locking torque (Nm)	Section (mm²)	Max no. conductors per pole	
		no. holes per section (mm²)			rigid	flexible
GW 44 606	3	4	1.8	4	2	2
				2.5	3	3
				1.5	4	4
GW 44 607	4	4	1.8	4	2	2
				2.5	3	3
				1.5	4	4
GW 44 608	5	4	1.8	4	2	2
				2.5	3	3
				1.5	4	4
GW 44 609	3	6	1.8	2.5	1 ÷ 4	1 ÷ 4
GW 44 610 GW 44 610 C	5			4	2 and 3	2 and 3
				6	2	/
GW 44 611	3	16	2.5	4	/	2 ÷ 4
GW 44 612	5			6	2 ÷ 4	2 ÷ 4
				10	2 and 3	2 and 3
				16	2	/
GW 44 613	3	35	4.5	10	/	2
GW 44 614	5			16	2	2
				25	2	2
				35	2	/

44 ME - SINGLE-POLE EQUIPOTENTIAL TERMINAL BLOCKS

TECHNICAL CHARACTERISTICS

Standard: IEC 60998-1; IEC 60998-2-1; EN 60998-1; EN 60998-2-1

Insulation voltage: 450V

Degree of protection: IP20

Protection against direct contact: IP XXB

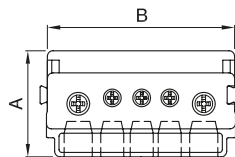
Heat resistance: thermo-pressure with ball 125°C

Resistance to abnormal heat and fire: Glow wire test 850°C

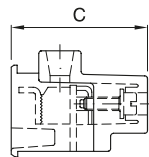
Maximum operating temperature: 85°C

Dimension tables

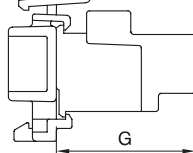
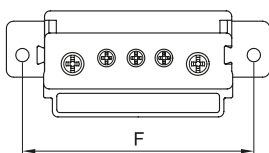
MODULAR TERMINAL BLOCKS



Fixing on the back of the box



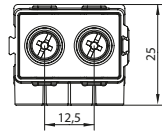
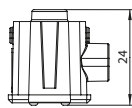
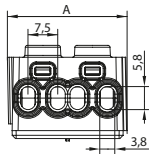
Fixing on DIN rail with GW 44 682



	Code	Dimensions			Conductor housings				Fixing	
		A	B	C	NO.	AND SEC	NO.	D SEC	F	G
3x6	GW 44 671	26	24	28	3	6	-	-	38	34.5
5x6	GW 44 672	26	35	28	5	6	-	-	49	34.5
4x16	GW 44 673	29	51.5	35.5	4	16	-	-	65.5	42
2x16	3x6 GW 44 674	29	51.5	35.5	3	6	2	16	65.5	42
2x16	9x6 GW 44 675	29	98	36.5	9	6	2	16	112	43
2x35	4x16 GW 44 676	39	94.5	54	4	16	2	35	108.5	-

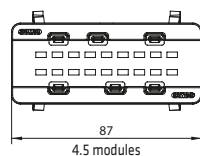
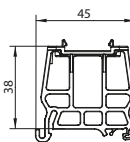
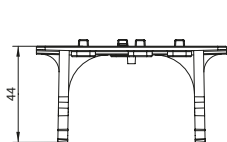
Code	Connection capacity no. holes per section (mm²)	Max no. conductors per pole		
		Section (mm²)	Rigid	Flexible
GW 44 671	3x6	6	1	/
		4	1	1
		2.5	1÷2	1÷2
GW 44 672	5x6	6	1	/
		4	1	1
		2.5	1÷2	1÷2
GW 44 673	4x16	16	1	/
		10	1	1
		6	1÷2	1÷2
GW 44 674	2x16	4	1÷2	1÷3
		16	1	/
		10	1	1
GW 44 675	2x16	6	1÷2	1÷2
		4	1÷2	1÷3
		6	1	/
GW 44 676	2x35	4	1	1
		2.5	1÷2	1÷2
		35	1	1
GW 44 676	4x16	25	1	1
		16	1÷2	1÷2
		10	1÷2	2÷3

COMBINED TERMINAL BLOCKS



	No. ways	mm²	A
GW 44 704	4	6	30
GW 44 706	6	6	43
GW 44 708	8	6	56

SUPPORT FOR COMBINED TERMINAL BLOCKS



Wiring	Cable type	Cable section		
		6 mm²	4 mm²	2.5 mm²
Using only one connection unit	Flexible	1	1 e 2	1 e 2
	Rigid - single wire	1	1	1 e 2
	Rigid - twisted wire	1	1 e 2	1 e 2

Wiring	Cable type	Cable section			
		Unit 1	Unit 2	6 mm ²	4 mm ²
Using the two connection units  Unit 1 Unit 2	Flexible	6 mm ²	1 + 1	-	-
		4 mm ²	-	1 + 1 2 + 2	1 + 1
		2.5 mm ²	-	-	1 + 1 1 + 2 2 + 2
	Rigid - single wire	6 mm ²	1 + 1	1 + 1	-
		4 mm ²	-	1 + 1	1 + 1
		2.5 mm ²	-	-	1 + 1 1 + 2
	Rigid - twisted wire	6 mm ²	1 + 1	1 + 1	1 + 2
		4 mm ²	-	1 + 1	-
		2.5 mm ²	-	-	1 + 1 2 + 2

44 MP - MODULAR DISTRIBUTION TERMINAL BLOCKS

TECHNICAL CHARACTERISTICS																								
Standard: IEC 60998-1; IEC 60998-2-1; EN 60998-1; EN 60998-2-1		Maximum operating temperature: 85°C																						
Impulse voltage: 4 kV		<table><tr><th>Rated current In (A)</th><th>IcW (kA)</th><th>Peak current Ipk (kA)</th><th>Uimp (kV)</th><th>Ui (V)</th></tr><tr><td>100</td><td>6</td><td>20</td><td>8</td><td>750</td></tr><tr><td>125</td><td>6</td><td>22</td><td>8</td><td>750</td></tr><tr><td>160</td><td>10</td><td>24</td><td>8</td><td>750</td></tr></table>			Rated current In (A)	IcW (kA)	Peak current Ipk (kA)	Uimp (kV)	Ui (V)	100	6	20	8	750	125	6	22	8	750	160	10	24	8	750
Rated current In (A)	IcW (kA)				Peak current Ipk (kA)	Uimp (kV)	Ui (V)																	
100	6				20	8	750																	
125	6				22	8	750																	
160	10				24	8	750																	
Insulation voltage: 500V																								
Protection against direct contact: IP XXA																								
Heat resistance: thermo-pressure with ball 125°C																								
Resistance to abnormal heat and fire: Glow wire test 850°C																								

Dimension tables

MODULAR DISTRIBUTION TERMINAL BLOCKS						
GW 44 651						
No. Poles	Code	A	B	C	D	E
2P	GW 44 691	50	72	44	49	64
	GW 44 693	50	144	44	49	136
4P	GW 44 696	81	72	44	49	64
	GW 44 698	81	144	44	49	136
	GW 44 699	90	160	44	49	145