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70 - 100 A		Han® 100 A Axial module	Han® 100 A Crimp module	Han® 100 A Single module	Han® 70 A Crimp module
	Number of contacts	1*	2*	1	2
	Electrical data	100 A / 1000 V	100 A / 1000 V	100 A / 830 V	70 A / 1000 V
	Termination type	Axial screw termination	Crimp termination	Crimp termination	Crimp termination
	Cross-section	16 ... 35 mm²	10 ... 35 mm²	10 ... 35 mm²	6 ... 25 mm²
	Male module (M)	09 14 002 2651	09 14 002 3051	09 14 001 3031	09 14 002 3041
	Female module (F)	09 14 002 2751	09 14 002 3151	09 14 001 3131	09 14 002 3141
	Cross-section	10 ... 25 mm²	-	-	-
	Male module (M)	09 14 002 2653	-	-	-
	Female module (F)	09 14 002 2753	-	-	-
40 - 70 A		Han® 70 A Axial module	Han® 70 A Hybrid module	Han® 40 A Axial module	Han® C Axial module
	Number of contacts	2	1 + (4 x Han E®)	2	3
	Electrical data	70 A / 1000 V	70 A / 1000 V	40 A / 1000 V	40 A / 690 V
	Termination type	Axial screw termination	Axial screw termination	Axial screw termination	Axial screw termination
	Cross-section	14 ... 22 mm²	14 ... 22 mm²	6 ... 10 mm²	6 ... 10 mm²
	Male module (M)	09 14 002 2647	09 14 005 2647	09 14 002 2602	09 14 003 2602
	Female module (F)	09 14 002 2742	09 14 005 2742	09 14 002 2702	09 14 003 2702
	Cross-section	6 ... 16 mm²	6 ... 16 mm²	2.5 ... 8 mm²	2.5 ... 8 mm²
	Male module (M)	09 14 002 2646	09 14 005 2646	09 14 002 2601	09 14 003 2601
	Female module (F)	09 14 002 2741	09 14 005 2741	09 14 002 2701	09 14 003 2701
16 A		Han E® Quick Lock module	Han® EE Quick Lock module	Han® ES module	Han E® screw module
	Number of contacts	6	8	5	5
	Electrical data	16 A / 500 V	16 A / 400 V	16 A / 400 V	16 A / 230/400 V
	Termination type	Quick Lock termination	Quick Lock termination	Cage clamp termination	Screw termination
	Cross-section	0.5 ... 2.5 mm²	0.5 ... 2.5 mm²	0.14 ... 2.5 mm²	0.5 ... 2.5 mm²
	Male module (M)	09 14 006 2633	09 14 008 2633	09 14 005 2616	09 14 005 2601
	Female module (F)	09 14 006 2733	09 14 008 2733	09 14 005 2716	09 14 005 2701
≤ 10 A		Han DD® Quick Lock module	Han DD® Quick Lock module		
	Number of contacts	12, silver plated	12, gold plated		
	Electrical data	10 A / 250 V	10 A / 250 V		
	Termination type	Quick Lock termination	Quick Lock termination		
	Cross-section	0.25 ... 1.5 mm²	0.25 ... 1.5 mm²		
	Male module (M)	09 14 012 2632	09 14 012 2634		
	Female module (F)	09 14 012 2732	09 14 012 2734		

* Double module, requires two places in the frame

		Han® A Crimp module	Han® C module	Han® CC module	Han® CD module
40 A					
	Number of contacts	2	3	4	3 + 4
	Electrical data	40 A / 1000 V	40 A / 690 V	40 A / 830 V	40 A + 10 A / 830 V
	Cross-section	1.5 ... 10 mm²	1.5 ... 6 mm²	1.5 ... 6 mm²	0.14 ... 6 mm²
	Termination type	Crimp termination, Han® C	Crimp termination, Han® C	Crimp termination, Han® C	Crimp, Han® C + Han D®
	Male module (M)	09 14 002 3002	09 14 003 3001	09 14 004 3041	09 14 007 3001
	Female module (F)	09 14 002 3102	09 14 003 3101	09 14 004 3141	09 14 007 3101
		Han E® module	Han® EE module	Han® EEE module	Han E® Protected module
16 A					
	Number of contacts	6	8	20*	6
	Electrical data	16 A / 500 V	16 A / 400 V	16 A / 500 V	16 A / 830 V
	Cross-section	0.14 ... 4 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²
	Termination type	Crimp termination, Han E®	Crimp termination, Han E®	Crimp termination, Han E®	Crimp termination, Han E®
	Male module (M)	09 14 006 3001	09 14 008 3001	09 14 020 3001	09 14 006 3041
	Female module (F)	09 14 006 3101	09 14 008 3101	09 14 020 3101	09 14 006 3141
		Han DD® module	Han® DDD module	Han DD® Quad module	
≤ 10 A					
	Number of contacts	12	17	25	
	Electrical data	10 A / 250 V	10 A / 150 V	4 A / 50 V	
	Cross-section	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.08 ... 0.52 mm²	
	Termination type	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub	
	Male module (M)	09 14 012 3002	09 14 017 3001	09 14 025 3001	
	Female module (F)	09 14 012 3102	09 14 017 3101	09 14 025 3101	
		Han® HV module 40 A	Han® HV module 16 A	Han® HV Single module	
High voltage					
	Number of contacts	2*	2*	2	
	Electrical data	40 A / 2900/5000 V	16 A / 2900/5000 V	16 A / 2500 V	
	Cross-section	1.5 ... 10 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²	
	Termination type	Crimp termination, Han® C	Crimp termination, Han E®	Crimp termination, Han E®	
	Male module (M)	09 14 002 3023	09 14 002 3021	09 14 002 3025	
	Female module (F)	09 14 002 3123	09 14 002 3121	09 14 002 3125	

* Double module, requires two places in the frame

Module overview for applications with Han-Eco®



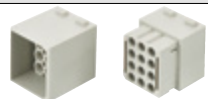
	Han® RJ45 module	for patch cable	for IDC	for patch cable	for IDC and preLink
Han® RJ45 modules	- 8 contacts - Cat. 6 _A - 10 Gbit/s				
		Male module (M) 09 14 001 4623	Male module (M) 09 14 001 4623	Female module (F) 09 14 001 4721	Female module (F) 09 14 001 4722
	Part numbers	Adapter for patch cables: 09 14 000 9966	RJ Industrial IDC: 09 45 400 1560	-	RJ45 female IDC: 09 14 545 1561
		Patch cable cat. 6: 09 47 474 71xx	-	-	RJ45 female preLink: 09 14 008 4720
		Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax
Han-Quintax® modules	Quintax module				
	Number of contacts	2 x 4*	2 x 8*	2 x Coax*	2 x Coax*
	Male module (M)	09 14 002 3001	09 14 002 3001	09 14 002 3001	09 14 002 3001
	Female module (F)	09 14 002 3101	09 14 002 3101	09 14 002 3101	09 14 002 3101
	Insert (Cable Ø ≤ 9.5 mm)				
	Data rate	100 Mbit/s (Cat. 5e)	100 Mbit/s (Cat. 5e)	≤ 500 Mhz / 75 Ω	≤ 500 Mhz / 50 Ω
	Electrical data	10 A / 50 V	5 A / 50 V	10 A / 50 V	16 A / 50 V
	Cross-section	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 4 mm²
	Termination type	Crimp termination, Han D®	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han E®
	Male insert (M)	09 15 004 3013	09 15 008 3013	09 15 001 3013	09 15 001 3023
	Female insert (F)	09 15 004 3113	09 15 008 3113	09 15 001 3113	09 15 001 3123
	PE shielding termination	Optional shielding termination to the hinged frame with the aid of Han-Quintax® metal adapter 09 14 000 9915			
		Han® GigaBit module	Han® MegaBit module	Han® MegaBit module with 1 cable entry	Han® Shielded module
Han® GigaBit – Han® MegaBit modules	Adapter Modul				
	Male module (M)	09 14 001 3011	09 14 001 3011	09 14 001 3011	09 14 001 3011
	Female module (F)	09 14 001 3111	09 14 001 3111	09 14 001 3111	09 14 001 3111
	Insert (Cable Ø ≤ 14 mm)				
	Number of contacts	8	2 x 4	8	20
	Data rate	10 Gbit/s (Cat. 6 _A)	2 x 100 Mbit/s (Cat. 5e)	1 Gbit/s (Cat. 5e)	
	Electrical data	5 A / 50 V	10 A / 50 V	10 A / 50 V	4 A / 32 V
	Cross-section	0.09 ... 0.52 mm²	0.14 ... 2.5 mm²	0.14 ... 2.5 mm²	0.09 ... 0.52 mm²
	Termination type	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub
	Shielding termination	Crimp flange	2 x crimp flange	Crimp flange	Crimp flange
	Male insert (M)	09 14 008 3011	09 14 008 3016	09 14 008 3021	09 14 020 3013
	Female insert (F)	09 14 008 3111	09 14 008 3116	09 14 008 3121	09 14 020 3113
		with PE shielding termination	with PE shielding termination	with PE shielding termination	-
	Male insert (M)	09 14 008 3012	09 14 008 3017	09 14 008 3022	
	Female insert (F)	09 14 008 3112	09 14 008 3117	09 14 008 3122	
		Han D-Sub module	Han® USB module	Han® FireWire module	
Serial Bus modules					
	Number of contacts	9 + shielding	8	6	
	Datenrate	12 Mbit/s (Profibus)	5 Gbit/s (USB 3.0)	400 Mbit/s (IEEE 1394a)	
	Electrical data	5 A / 50 V	1 A / 50 V	1 A / 50 V	
	Cross-section	0.09 ... 0.52 mm²			
	Termination type	Crimp termination, D-Sub	USB patch cable	FireWire patch cable	
	Male module (M)	09 14 009 3001	09 14 001 4601	09 14 001 4611	
	Female module (F)	09 14 009 3101	09 14 001 4703	09 14 001 4711	

* Double module, requires two places in the frame

for more technical details see chapter 06

Removal tools 09 99 000 0331, 09 99 000 0828 and 09 99 000 0842 see chapter 90

* Take care of the wiring space! Choose inner positions.

Optical modules		Han® SC module	Han® Multi module	Han® Multi module
				
	Number of contacts	4	4	12*
	Male module (M)	09 14 004 4701	09 14 004 4501	09 14 012 4501
	Female module (F)	09 14 004 4713	09 14 004 4512	09 14 012 4512
	Contacts			
	1 mm POF	20 10 001 5211	Male: 20 10 001 4211 Female: 20 10 001 4221	Male: 20 10 001 4211 Female: 20 10 001 4221
	1 mm POF Fast assembly termination	20 10 001 5217		
	SI-Fibre 200 / 230 µm Multi-Mode	20 10 230 5211	Male: 20 10 230 4211 Female: 20 10 230 4221	Male: 20 10 230 4211 Female: 20 10 230 4221
GI-Fibre 50-62.5 / 125 µm Multi-Mode	20 10 125 5211	Male: 20 10 125 4212 Female: 20 10 125 4222	Male: 20 10 125 4212 Female: 20 10 125 4222	
Special modules		Han-Eco® PE module	Han® Dummy module	
	Field of application	for Han-Eco® hoods/housings only		to fill-up empty module places
				
	Number of contacts	1 x PE		
	Electrical data	1.5 ... 16 mm²		
	Cross-section	Screw termination		
	Male module (M)	19 41 001 2600	09 14 000 9950	
	Female module (F)	19 41 001 2700		

* Double module, requires two places in the frame

Features

- Suitable for Han-Eco® hoods/housings and the Han-Modular® docking frame
- Higher contact density compared to Han E® standard screw inserts (up to 65%)
- Han-Eco® “click and mate” assembly concept
- 6 coding options

Technical characteristics

Number of contacts	10, 14, 20, 28
Electrical data acc. to IEC 61984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	$\geq 10^{10} \Omega$
Limiting temperature	-40 ... +125 °C
Flammability acc. to UL 94	V-0
Mating cycles	≥ 500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Material (accessories)	Thermoplastic

Number of contacts

10+

16 A 500 V 6 kV 3

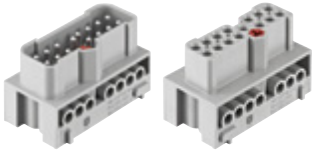
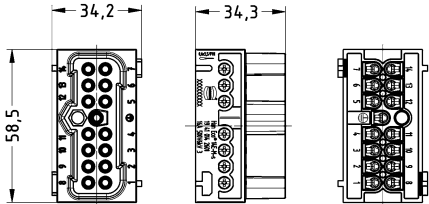
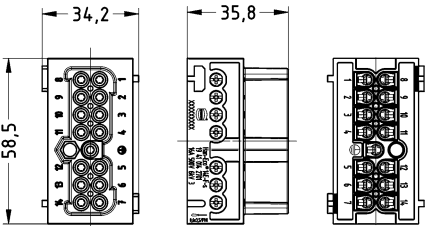
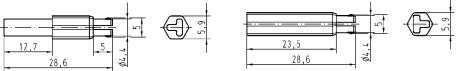
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Eco®, Screw termination, With wire protection, Contact surface: Silver plated	0,75 ... 2,5	19 41 010 2601	19 41 010 2701	Tightening torque 0.5 Nm
Coding element		09 12 000 9901	09 12 000 9902	

Han-Eco

Number of contacts

14+ 

16 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Eco® , Screw termination, With wire protection, Contact surface: Silver plated 	0,75 ... 2,5	19 41 014 2601	19 41 014 2701	  Tightening torque 0.5 Nm
Coding element 		09 12 000 9901	09 12 000 9902	

Han-Eco

Number of contacts

20+

16 A 500 V 6 kV 3

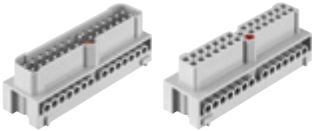
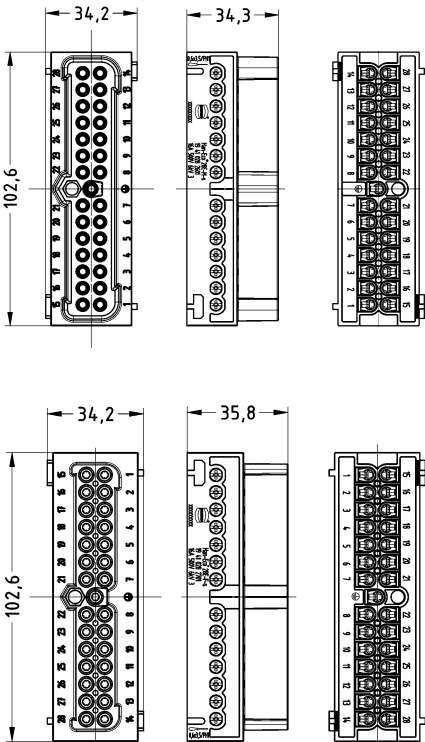
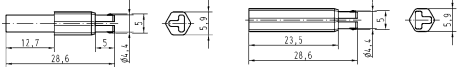
Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
Male		Female		
Han-Eco®, Screw termination, With wire protection, Contact surface: Silver plated	0,75 ... 2,5	19 41 020 2601	19 41 020 2701	Tightening torque 0.5 Nm
Coding element		09 12 000 9901	09 12 000 9902	



Number of contacts

28+

16 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Eco®, Screw termination, With wire protection, Contact surface: Silver plated 	0,75 ... 2,5	19 41 028 2601	19 41 028 2701	 Tightening torque 0.5 Nm
Coding element 		09 12 000 9901	09 12 000 9902	

Features

- With integrated cable gland
- Optional PE contact module to hold the protective ground conductor
- Capable for applications according protection class II

Technical characteristics

Limiting temperature	-40 ... +125 °C
Flammability acc. to UL 94	V-0
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polyamide, Fibre-glass reinforced
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Colour (seal)	RAL 9005 (jet black)
Material (locking)	Polyamide, Fibre-glass reinforced
Colour (locking)	RAL 9005 (jet black)

Specifications and approvals

EN 45545-2
R22: HL1, HL2
R23: HL1, HL2, HL3
R24: HL1, HL2, HL3

Details

Han-Eco® 10 A and 16 A:

Assembly dimensions are identical for the Han® A bulkhead and surface mounted housings – mating compatible with all metal hoods and housings of the series Han® A.

As an option a larger panel cut out for the rear assembly of the bulkhead mounted housings is possible.

Han-Eco® 6 B, 10 B, 16 B and 24 B:

Assembly dimensions are identical for the Han® B bulkhead mounted housings - not mating compatible with the hoods and housings of the series Han® B.

Single locking lever

Identification

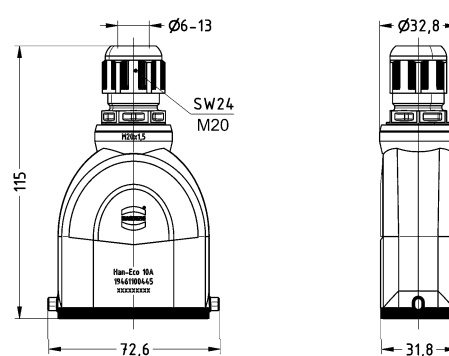
Cable entry

Part number

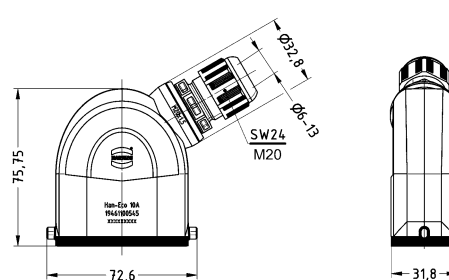
Drawing
(dimensions in mm)

Han-Eco® ,
Hoods,
With integrated cable gland,
Top entry

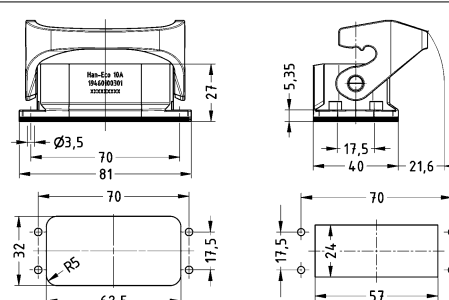
1x M20
1x M25

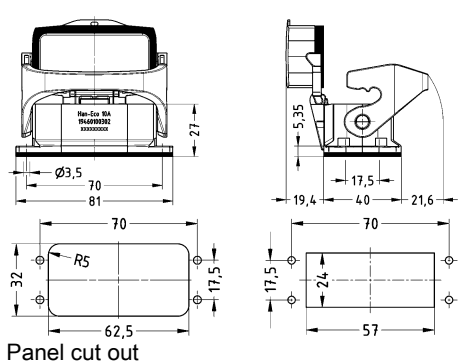
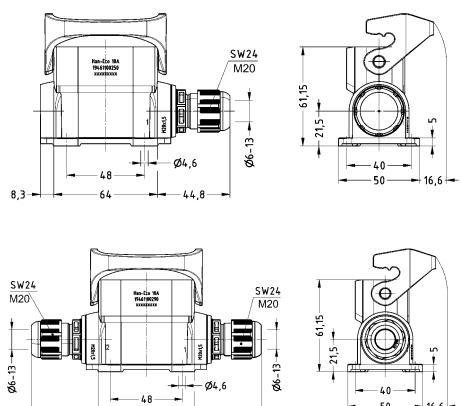
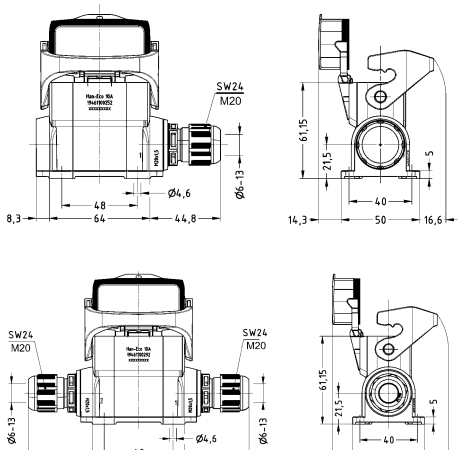
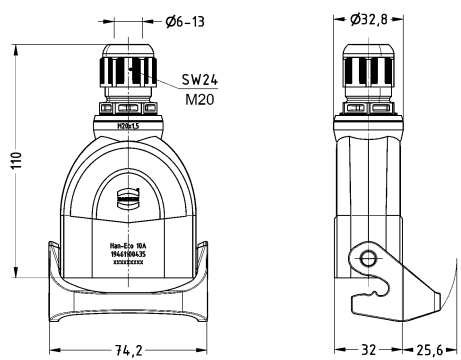
19 46 110 0445
19 46 110 0446

Han-Eco® ,
Hoods,
With integrated cable gland,
Side entry

1x M20
1x M25

19 46 110 0545
19 46 110 0546

Han-Eco® ,
Bulkhead mounted housings

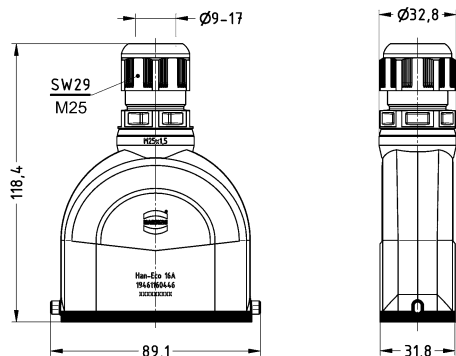
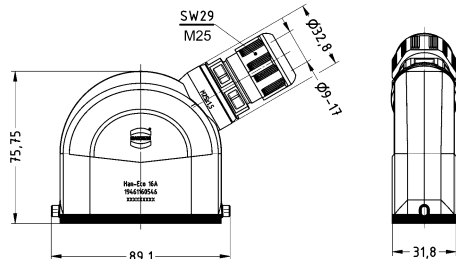
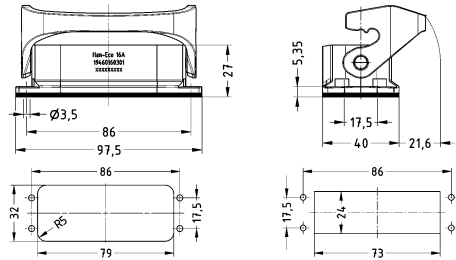
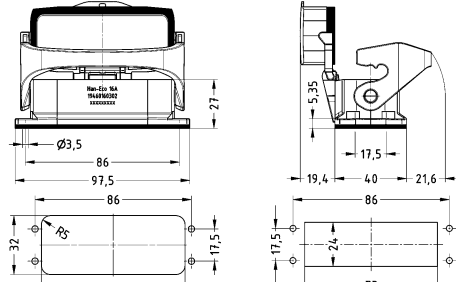

19 46 010 0301

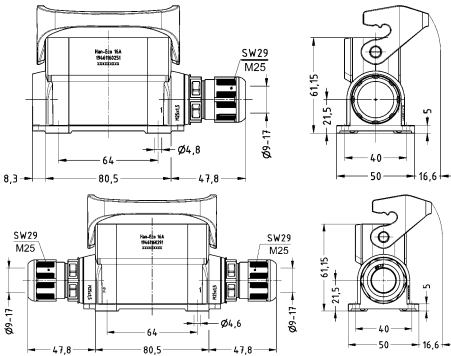
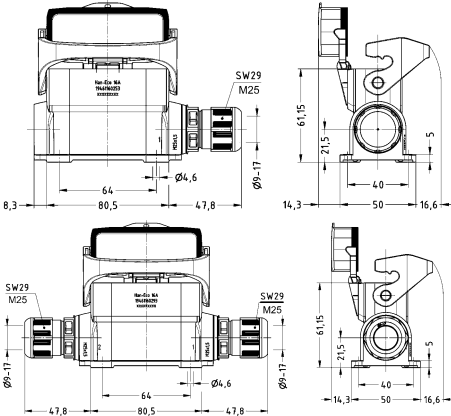
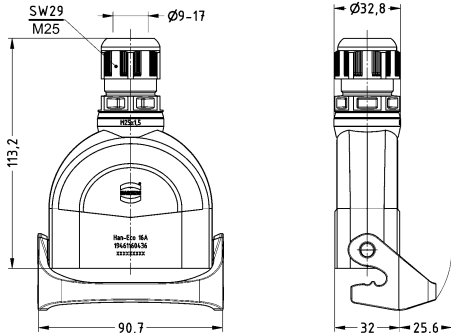

Panel cut out
Rear assembly

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Bulkhead mounted housings, With thermo-plastic cover 		19 46 010 0302	 Panel cut out
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 110 0250 19 46 110 0251 19 46 110 0290 19 46 110 0291	
Han-Eco®, Surface mounted housing, With thermo-plastic cover, With integrated cable gland, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 110 0252 19 46 110 0253 19 46 110 0292 19 46 110 0293	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 110 0435 19 46 110 0436	

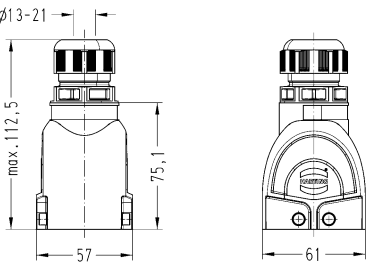
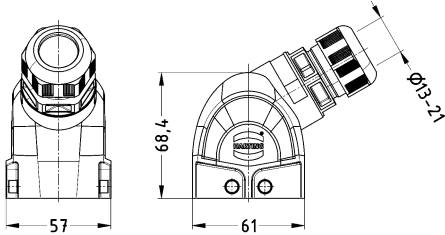
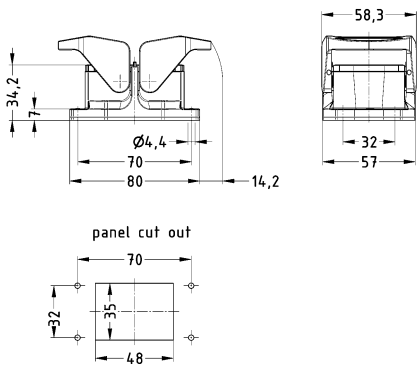
Single locking lever



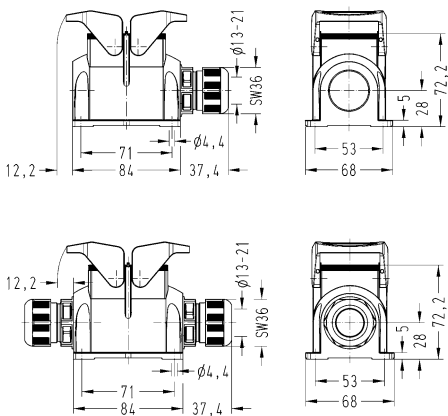
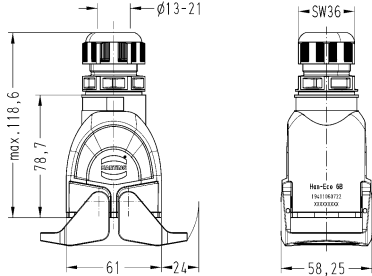
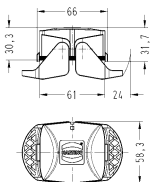
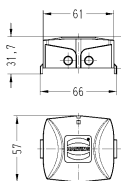
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 116 0445 19 46 116 0446	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M20 1x M25	19 46 116 0545 19 46 116 0546	
Han-Eco® , Bulkhead mounted housings 		19 46 016 0301	 Panel cut out
Han-Eco® , Bulkhead mounted housings, With thermo-plastic cover 		19 46 016 0302	 Panel cut out

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Surface mounted housing, With integrated cable gland, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 116 0250 19 46 116 0251 19 46 116 0290 19 46 116 0291	
Han-Eco® , Surface mounted housing, With thermo-plastic cover, With integrated cable gland, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 116 0252 19 46 116 0253 19 46 116 0292 19 46 116 0293	
Han-Eco® , Cable to cable housing, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 116 0435 19 46 116 0436	

Double locking lever

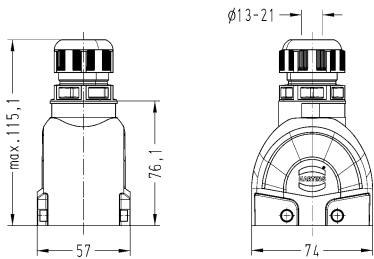
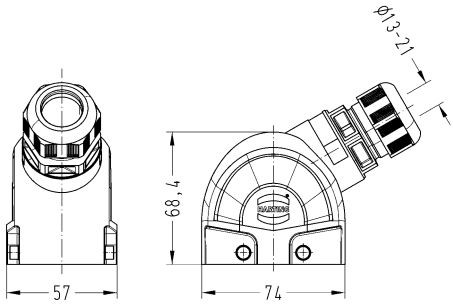
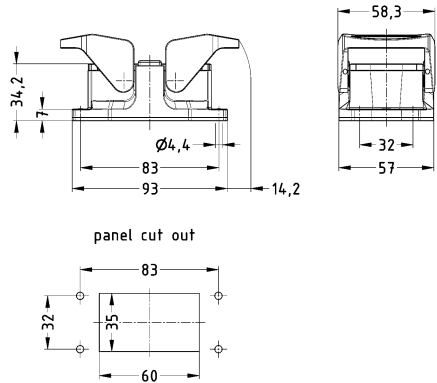
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M32	19 41 106 0422	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M32	19 41 106 0522	
Han-Eco® , Bulkhead mounted housings 		19 41 006 0301	

Han-
Eco

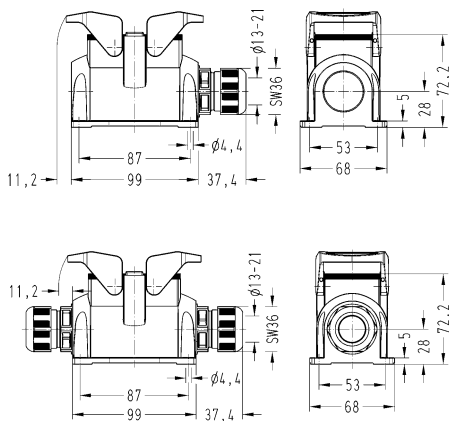
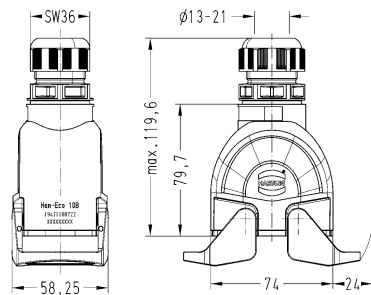
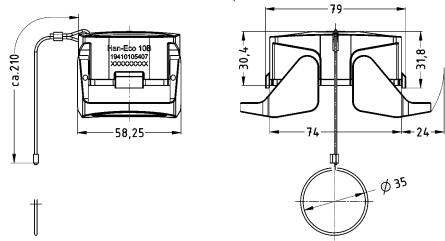
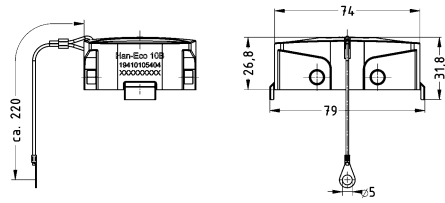
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M32 2x M32	19 41 106 0232 19 41 106 0272	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M32	19 41 106 0722	
Han-Eco®, Protection cover for hoods 		19 41 006 5406	
Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 006 5407	
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 006 5404	
Han-Eco®, Protection cover for all housings 		19 41 006 5405	



Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M32	19 41 110 0422	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M32	19 41 110 0522	
Han-Eco® , Bulkhead mounted housings 		19 41 010 0301	

Han-Eco

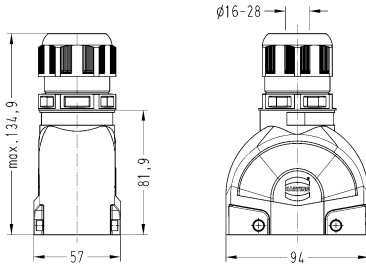
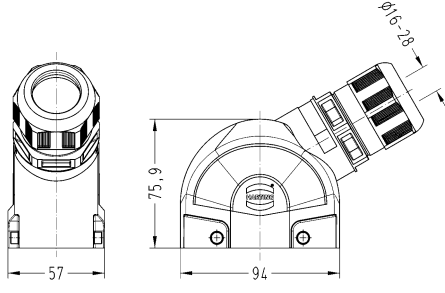
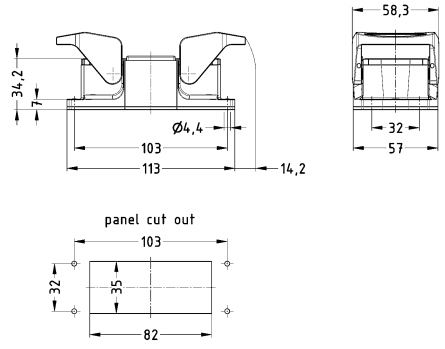
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M32 2x M32	19 41 110 0232 19 41 110 0272	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M32	19 41 110 0722	
Han-Eco®, Protection cover for hoods 		19 41 010 5406	
Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 010 5407	
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 010 5404	



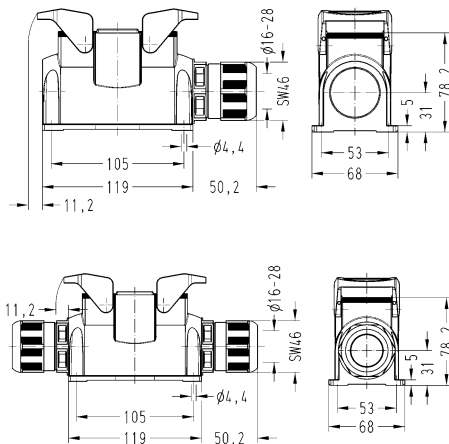
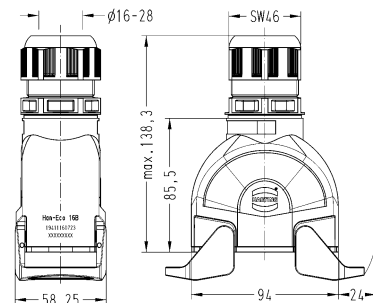
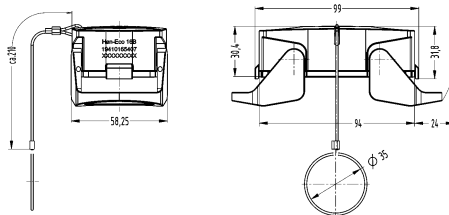
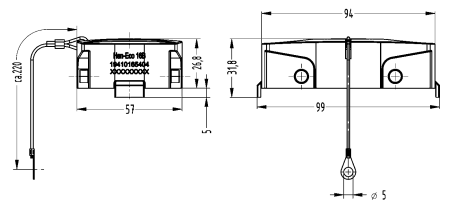
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Protection cover for all housings 		19 41 010 5405	

Han-
Eco

Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M40	19 41 116 0423	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M40	19 41 116 0523	
Han-Eco® , Bulkhead mounted housings 		19 41 016 0301	

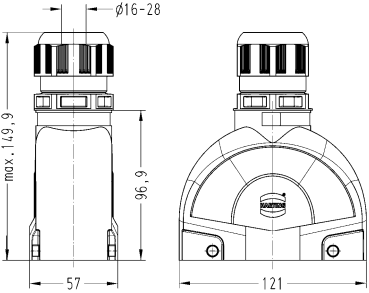
Han-
Eco

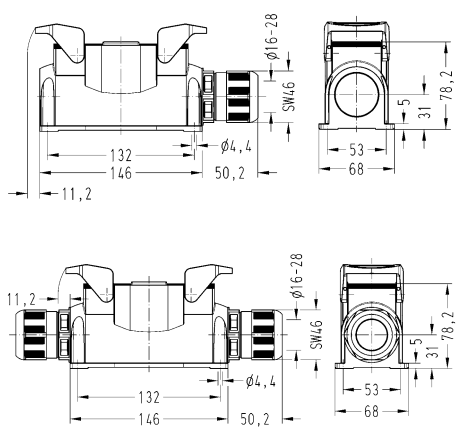
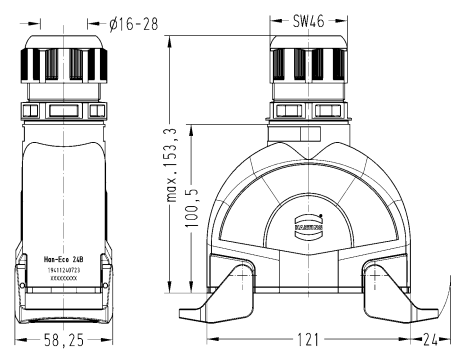
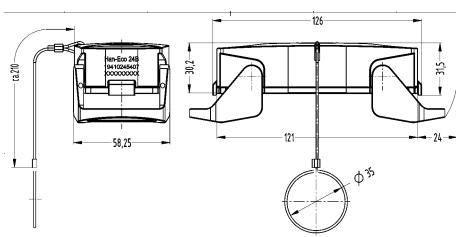
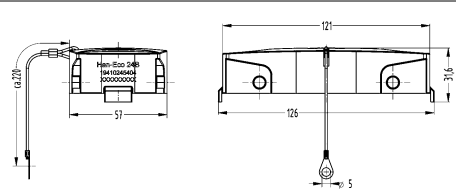
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland 	1x M40 2x M40	19 41 116 0233 19 41 116 0273	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M40	19 41 116 0723	
Han-Eco®, Protection cover for hoods 		19 41 016 5406	
Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 016 5407	
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 016 5404	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Protection cover for all housings 		19 41 016 5405	



Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M40	19 41 124 0423	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M40 2x M40	19 41 124 0233 19 41 124 0273	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M40	19 41 124 0723	
Han-Eco®, Protection cover for hoods 		19 41 024 5406	
Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 024 5407	
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 024 5404	



Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Protection cover for all housings 		19 41 024 5405	

Han-Eco

Features

- With integrated cable gland
- Optional PE contact module to hold the protective ground conductor

Technical characteristics

Limiting temperature	-40 ... +125 °C
Flammability acc. to UL 94	V-0
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polyamide, Fibre-glass reinforced
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	FPM
Colour (seal)	RAL 7001 (silver-grey)
Material (locking)	Polyamide, Fibre-glass reinforced
Colour (locking)	RAL 9005 (jet black)

Specifications and approvals

EN 45545-2
R22: HL1, HL2
R23: HL1, HL2, HL3
R24: HL1, HL2, HL3

Details

Han-Eco® 10 A and 16 A:

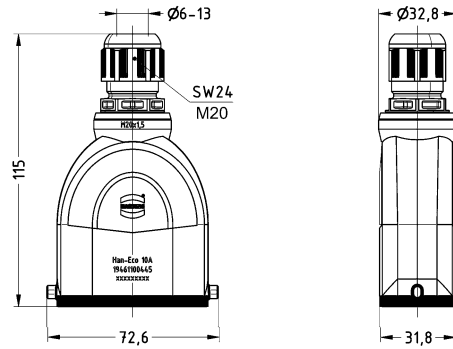
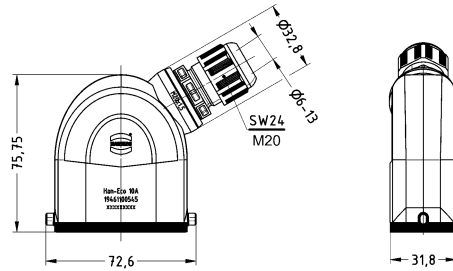
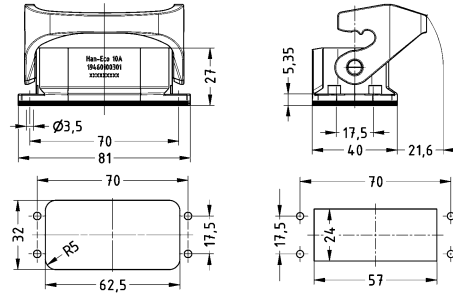
Assembly dimensions are identical for the Han® A bulkhead and surface mounted housings – mating compatible with all metal hoods and housings of the series Han® A.

As an option a larger panel cut out for the rear assembly of the bulkhead mounted housings is possible.

Han-Eco® 6 B, 10 B, 16 B and 24 B:

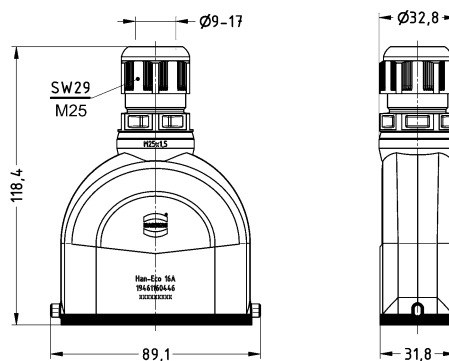
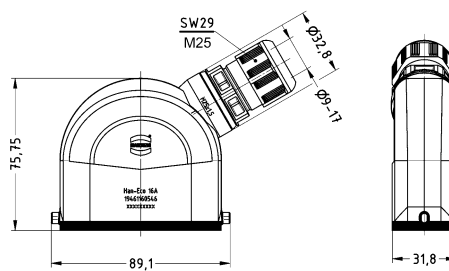
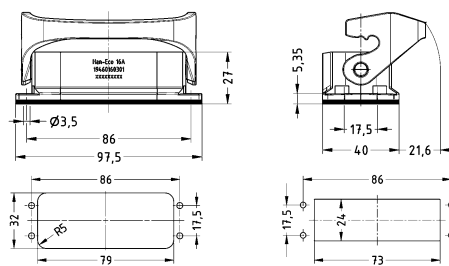
Assembly dimensions are identical for the Han® B bulkhead mounted housings - not mating compatible with the hoods and housings of the series Han® B.

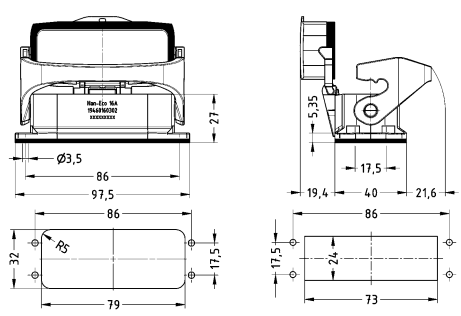
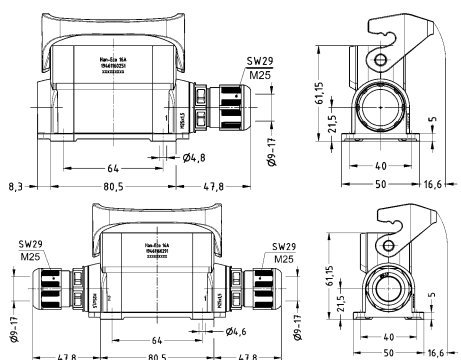
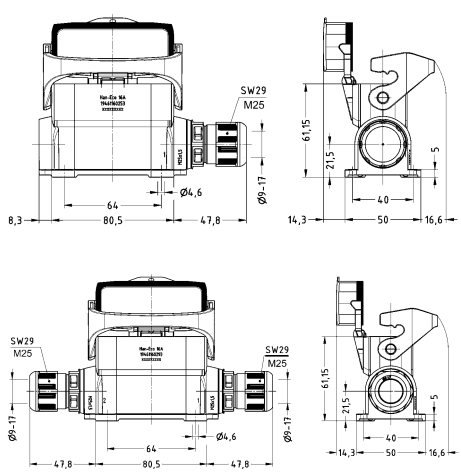
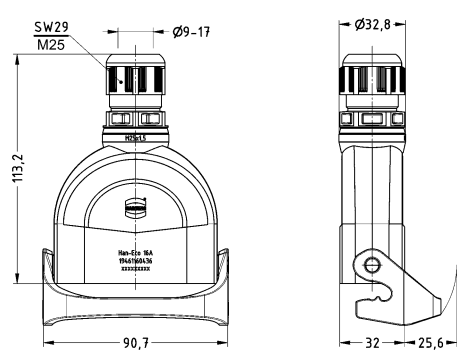
Single locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco[®], Hoods, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 310 0445 19 46 310 0446	
Han-Eco[®], Hoods, With integrated cable gland 	1x M20 1x M25	19 46 310 0545 19 46 310 0546	
Han-Eco[®], Bulkhead mounted housings 		19 46 210 0301	 Panel cut out Rear assembly

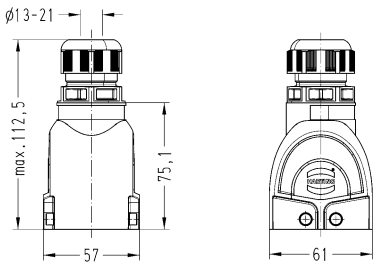
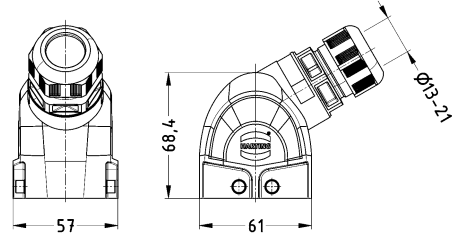
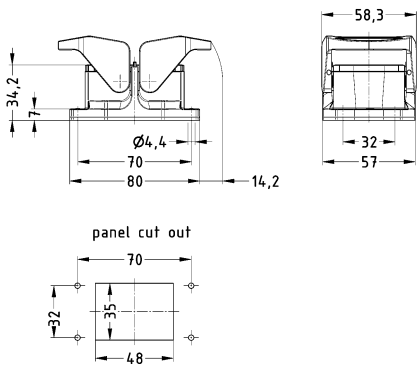
Single locking lever

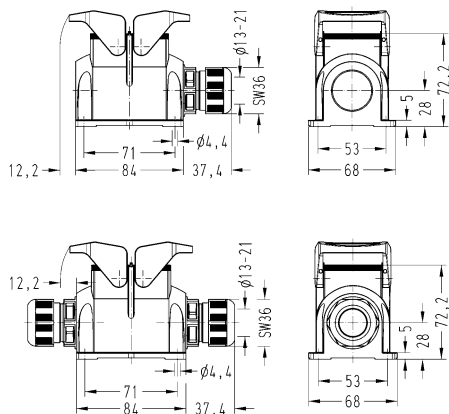
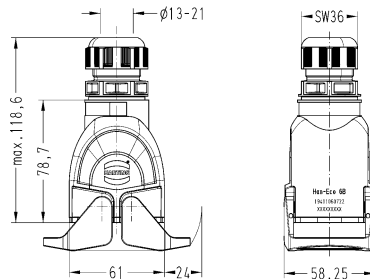
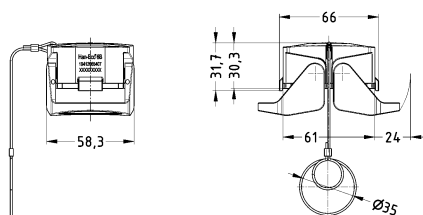


Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 316 0445 19 46 316 0446	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M20 1x M25	19 46 316 0545 19 46 316 0546	
Han-Eco® , Bulkhead mounted housings 		19 46 216 0301	 Panel cut out

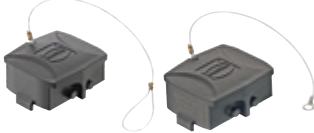
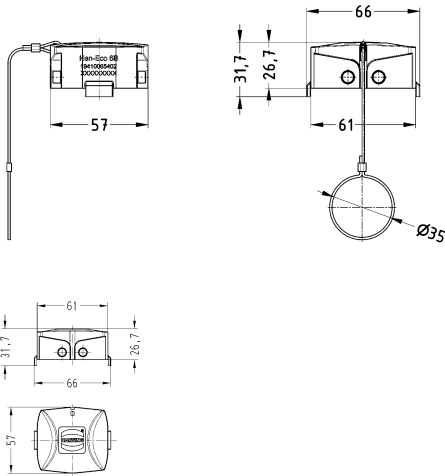
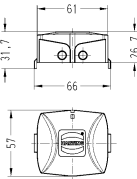
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Bulkhead mounted housings, With thermo-plastic cover 		19 46 216 0302	 Panel cut out
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 116 0250 19 46 116 0251 19 46 116 0290 19 46 116 0291	
Han-Eco®, Surface mounted housing, With integrated cable gland, With thermo-plastic cover, Side entry 	1x M20 1x M25 2x M20 2x M25	19 46 316 0252 19 46 316 0253 19 46 316 0292 19 46 316 0293	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M20 1x M25	19 46 116 0435 19 46 116 0436	

Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M32	19 41 106 0422	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M32	19 41 106 0522	
Han-Eco® , Bulkhead mounted housings 		19 41 206 0301	

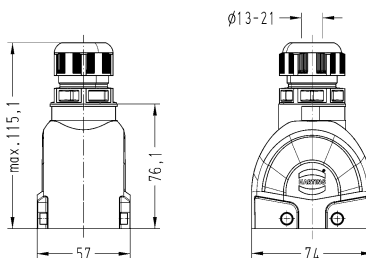
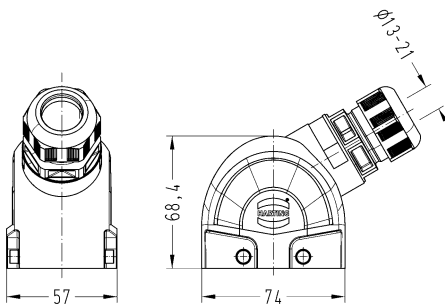
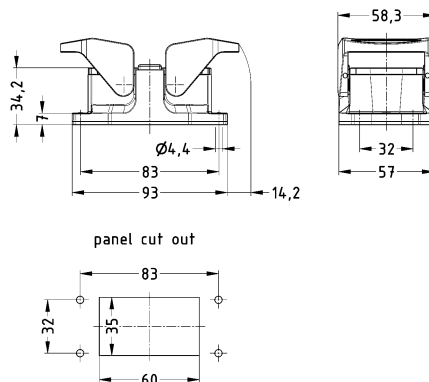
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M32 2x M32	19 41 306 0232 19 41 306 0272	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M32	19 41 306 0722	
Han-Eco®, Protection cover for hoods  Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 206 5406 19 41 206 5407	



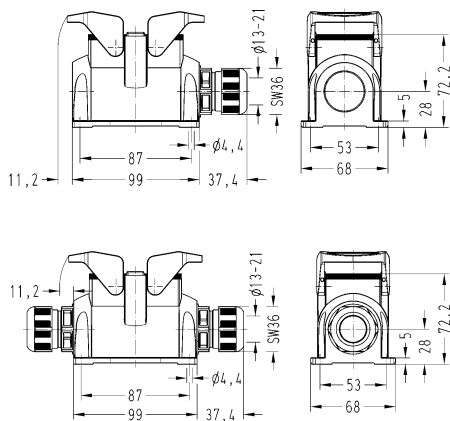
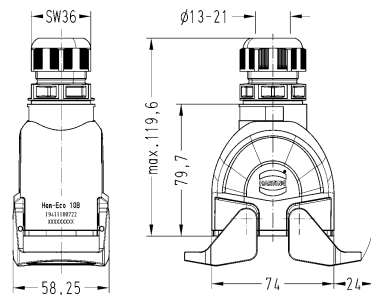
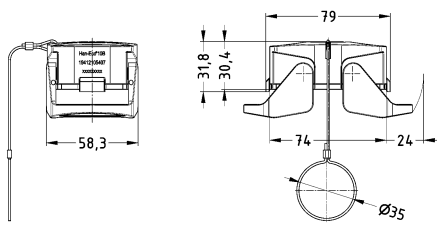
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 006 5402 19 41 006 5404	
Han-Eco®, Protection cover for all housings 		19 41 006 5405	

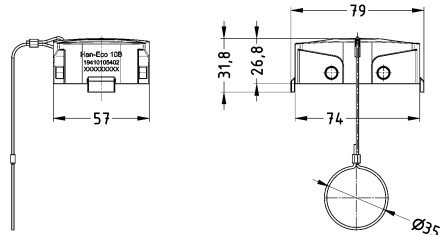
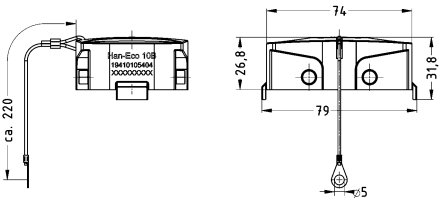
Han-Eco

Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M32	19 41 110 0422	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M32	19 41 110 0522	
Han-Eco® , Bulkhead mounted housings 		19 41 210 0301	

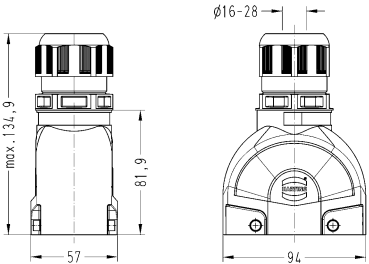
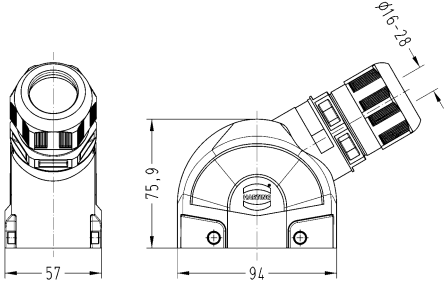
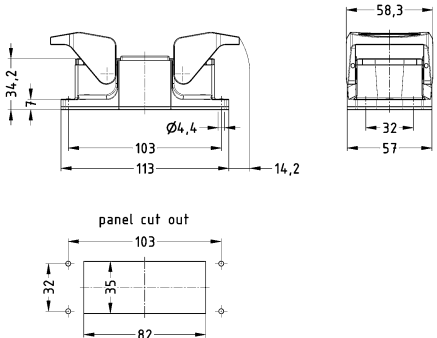
Han-
Eco

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M32 2x M32	19 41 310 0232 19 41 310 0272	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M32	19 41 310 0722	
Han-Eco®, Protection cover for hoods 		19 41 210 5406	
Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 210 5407	

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Protection cover for all housings, With fixing cord 		19 41 010 5402 19 41 010 5404	 
Han-Eco®, Protection cover for all housings 		19 41 010 5405	



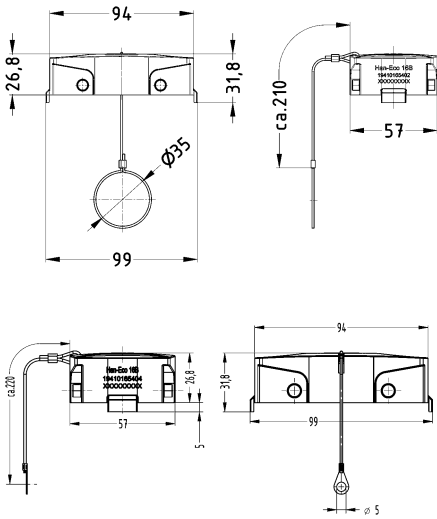
Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M40	19 41 116 0423	 Technical drawing showing two views of the hood. The front view shows a height of 134,9 mm (max), a base width of 57 mm, and a mounting hole diameter of 81,9 mm. The side view shows a base width of 94 mm and a cable entry diameter of $\phi 16-28$.
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M40	19 41 116 0523	 Technical drawing showing two views of the hood. The front view shows a height of 75,9 mm and a base width of 57 mm. The side view shows a base width of 94 mm, a cable entry diameter of $\phi 16-28$, and a mounting hole diameter of 75,9 mm.
Han-Eco® , Bulkhead mounted housings 		19 41 216 0301	 Technical drawing showing three views of the housing. The front view shows a height of 34,2 mm, a base width of 113 mm, and a mounting hole diameter of $\phi 4,4$. The side view shows a base width of 57 mm and a mounting hole diameter of 58,3 mm. The top view shows a panel cut out with dimensions 103 mm by 82 mm, and a mounting hole diameter of 32 mm.

Han-Eco

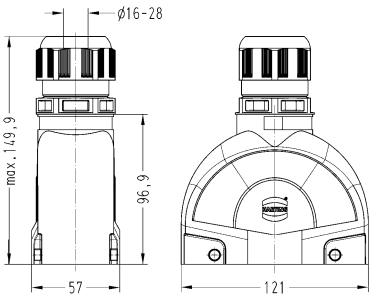
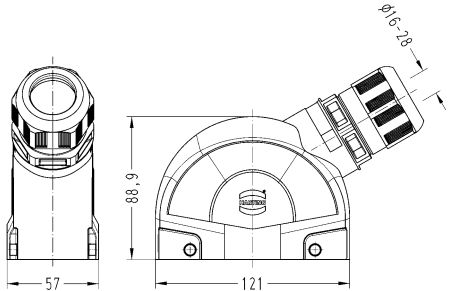
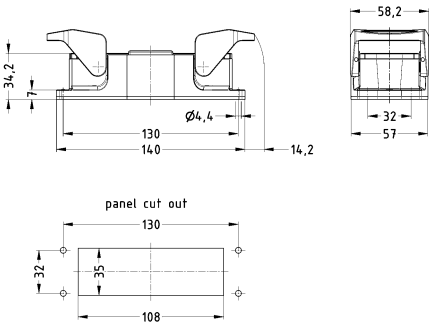
Han-
Eco



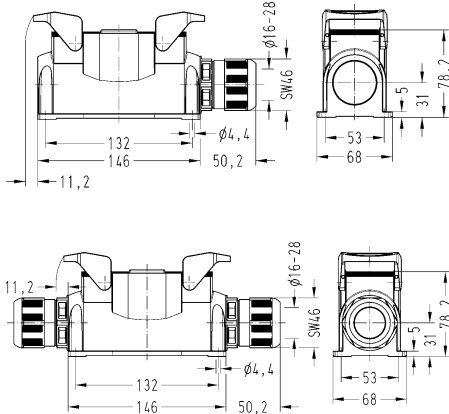
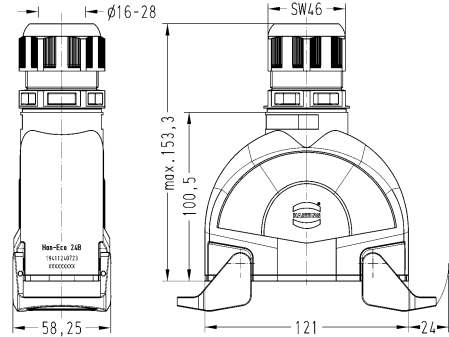
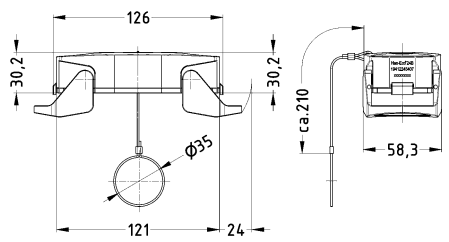
Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Protection cover for all housings, With fixing cord 		19 41 016 5402 19 41 016 5404	
Han-Eco® , Protection cover for all housings 		19 41 016 5405	

Han-Eco

Double locking lever

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco® , Hoods, With integrated cable gland, Top entry 	1x M40	19 41 124 0423	
Han-Eco® , Hoods, With integrated cable gland, Side entry 	1x M40	19 41 124 0523	
Han-Eco® , Bulkhead mounted housings 		19 41 224 0301	

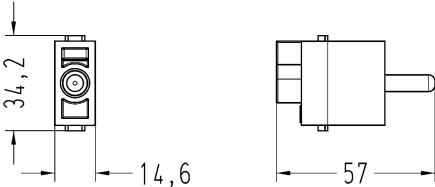
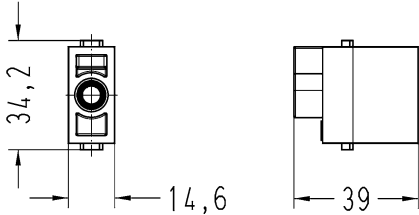
Han-Eco

Identification	Cable entry	Part number	Drawing (dimensions in mm)
Han-Eco®, Surface mounted housing, With integrated cable gland, Side entry 	1x M40 2x M40	19 41 324 0233 19 41 324 0273	
Han-Eco®, Cable to cable housing, With integrated cable gland, Top entry 	1x M40	19 41 324 0723	
Han-Eco®, Protection cover for hoods  Han-Eco®, Protection cover for hoods, With fixing cord 		19 41 224 5406 19 41 224 5407	

Number of contacts

1

Technical characteristics		Specifications and approvals
Number of contacts	1	UL 1977 ECBT2.E235076
Mating cycles	≥500	
Colour (insert)	RAL 7032 (pebble grey)	

Identification	Conductor cross-section (mm²)	Part number		Drawing (dimensions in mm)
		Male	Female	
Han-Modular®, Han-Eco® contact module, Screw termination  With 09 99 000 0830 HARTING Crimping tool also cable up to 25 mm² with ferrule adaptable	1,5 ... 16	19 41 001 2600	19 41 001 2700	 

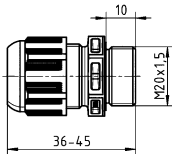
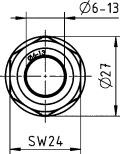
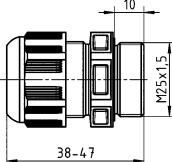
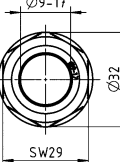
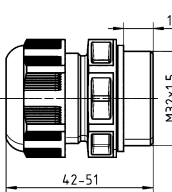
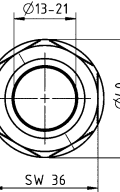
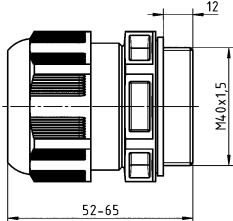
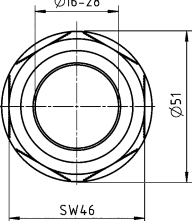
Han-Eco

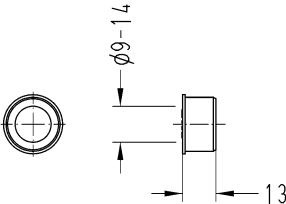
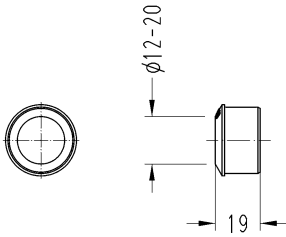
Technical characteristics

Material (cable glands) Polyamide

Technical characteristics

Colour (accessories) RAL 9005 (jet black)

Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)																								
Han-Eco® , Cable gland	M20	6 ... 13	19 41 000 5111	Tightening torque <table><tr><th></th><th>Stutzen</th><th>Hutmutter</th></tr><tr><td>M20</td><td>4 Nm</td><td>3 Nm</td></tr><tr><td>M25</td><td>10 Nm</td><td>4 Nm</td></tr><tr><td>M32</td><td>15 Nm</td><td>4 Nm</td></tr><tr><td>M40</td><td>20 Nm</td><td>20 Nm</td></tr></table>         <tr><td>M25</td><td>9 ... 17</td><td>19 41 000 5121</td></tr> <tr><td>M32</td><td>13 ... 21</td><td>19 41 000 5131</td></tr> <tr><td>M40</td><td>16 ... 28</td><td>19 41 000 5141</td></tr>		Stutzen	Hutmutter	M20	4 Nm	3 Nm	M25	10 Nm	4 Nm	M32	15 Nm	4 Nm	M40	20 Nm	20 Nm	M25	9 ... 17	19 41 000 5121	M32	13 ... 21	19 41 000 5131	M40	16 ... 28	19 41 000 5141
		Stutzen	Hutmutter																									
	M20	4 Nm	3 Nm																									
	M25	10 Nm	4 Nm																									
	M32	15 Nm	4 Nm																									
M40	20 Nm	20 Nm																										
M25	9 ... 17	19 41 000 5121																										
M32	13 ... 21	19 41 000 5131																										
M40	16 ... 28	19 41 000 5141																										

Identification	Size	Clamping range (mm)	Part number	Drawing (dimensions in mm)
Han-Eco®, Reduction seal insert	M32	9 ... 14	19 41 000 5132	
	M40	12 ... 20	19 41 000 5142	
				

Technical characteristics

Material (seal) NBR

Technical characteristics

Colour (seal) Black

Identification	Size	Part number	Drawing (dimensions in mm)
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Flange gasket,
Han-Eco®



06 B	19 41 000 9801
10 B	19 41 000 9802
16 B	19 41 000 9803
24 B	19 41 000 9804

Profile gasket,
Han-Eco®



06 B	19 41 000 9901
10 B	19 41 000 9902
16 B	19 41 000 9903
24 B	19 41 000 9904