



Pushing Performance



People | Power | Partnership

HARTING Han-Modular® Flexbox The next dimension of modularity

The housing that adapts to your requirements

Easy installation: HARTING Han-Modular® Flexbox

HARTING has expanded its housing series by an innovative, highly flexible and time saving solution: the **Han-Modular® Flexbox**. Its flexibility is based on a modular building block system, which enables the user to combine several housings into a single connector.

By implementing the Han-Modular® Flexbox for example into an energy chain system, the time needed to connect, disconnect or replace elements is reduced by over 90%. This results in a reduction of machine downtimes and keeps the supply of power, data and signals running stable.



**Quick and safe
connection**



**Flexible building
block system**



**Suitable for
drag chains**



Modular housing and inserts: **HARTING Han-Modular® Flexbox**

The Han-Modular® Flexbox offers a very slim design. This saves space and enables a high pin count in every application, especially when multiple housings are combined to one connector. The integrated seals and strain relief make the Han-Modular® Flexbox a stand-alone solution, which adapts to your requirements.

HARTING upholds the flexibility of the housing series also on the inside of the connector. With the integration of Han-Modular® modules, the possibilities of combinations are nearly endless. Choose from the broadest range of electrical, optical and pneumatic modules on the market to make the Han-Modular® Flexbox your individual interface



Compatible with
Han-Modular® portfolio



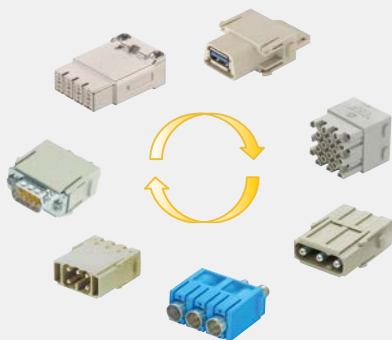
Over 100
modules available



Transmit power, data
and signals in one interface



Easy installation: HARTING Han-Modular® Flexbox



Select modules from broadest product range worldwide



Define number of housings



Select locking and fixing elements




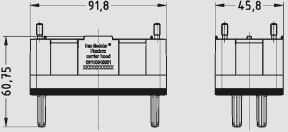

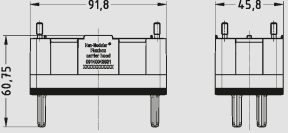

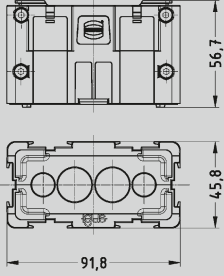

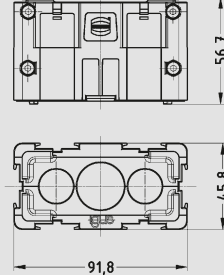
Create an individual interface



Combine housings to one unit


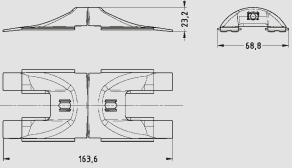

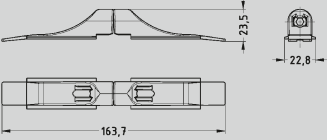
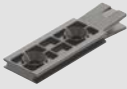
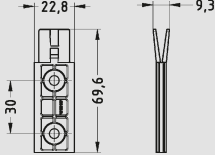

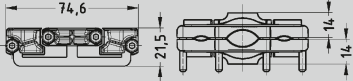

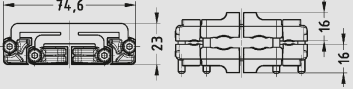
Technical Characteristics

Components and Part numbers

	Identification	Figure	Drawings
Housing A ... D	09 14 004 8001		
Housing a ... d	09 14 004 8101		
Cover for 4 cable entries	09 14 000 8014		
Cover for 3 cable entries	09 14 000 8013		


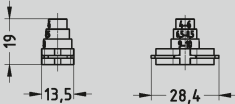

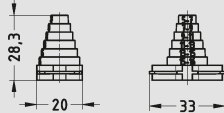

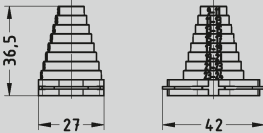
Technical Characteristics

Components and Part numbers

	Identification	Figure	Drawings
Double locking element	09 14 000 8022		
Single locking element	09 14 000 8021		
Fixing element	09 14 000 8020		
Strain relief - cover with 3 entries	09 14 000 8033		
Strain relief - cover with 4 entries	09 14 000 8034		

Technical Characteristics

Components and Part numbers

	Identification	Figure	Drawings
Bellows seal insert small 4 - 10 mm	09 14 000 8100		
Bellows seal insert medium 5 - 16 mm	09 14 000 8200		
Bellows seal insert large 9 - 24 mm	09 14 000 8300		

Safety notice



The modules listed in the table below must not be used in the Han-Modular® Flexbox.

Module	Part no.
Han® 100 A module (axial screw)	09 14 002 265X / 09 14 002 275X
Han® 70 A module (axial screw)	09 14 002 264X / 09 14 002 274X
Han® 70 A Hybrid module	09 14 005 264X / 09 14 005 274X
Han® HV module ("double")	09 14 002 302X / 09 14 002 312X
Han® HV single module	09 14 002 3025 / 09 14 002 3125
Han® Megabit module	09 14 008 30XX / 09 14 008 31XX
Han-Smart® Ethernet switch	09 80 113 0400

70 - 200 A		Han® 200 A Crimp 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	200 A / 1000 V	100 A / 1000 V	100 A / 830 V	70 A / 1000 V
	Cross-section	25 ... 70 mm ²	10 ... 35 mm ²	10 ... 35 mm ²	6 ... 25 mm ²
	Termination type	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC	Crimp termination, Han® HC
Male module (M)	09 14 001 3001	09 14 002 3051	09 14 001 3031	09 14 002 3041	
Female module (F)	09 14 001 3101	09 14 002 3151	09 14 001 3131	09 14 002 3141	
40 A		Han® 40 A Crimp module	Han® C module	Han® CC module	Han® CD module
	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 mm ²	1.5 ... 6 mm ²	1.5 ... 6 mm ²	0.14 ... 6 mm ²
	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	
16 A		Han E® module	Han® EE module	Han® EEE module	Han E® Protected module
	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 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²
	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	
≤ 10 A		Han DD® module	Han® DDD module	Han DD® Quad module	Han® High Density module
	Number of contacts	12	17	42*	25
	Electrical data	10 A / 250 V	10 A / 150 V	10 A / 150 V	4 A / 50 V
	Cross-section	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.08 ... 0.52 mm ²
	Termination type	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, Han D®	Crimp termination, D-Sub
Male module (M)	09 14 012 3002	09 14 017 3001	09 14 042 3001	09 14 025 3001	
Female module (F)	09 14 012 3102	09 14 017 3101	09 14 042 3101	09 14 025 3101	







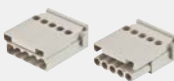






* Double module, requires two places in the frame

Data Transfer Modules



	Han® RJ45 module	for patch cable	for IDC	for patch cable	for IDC and preLink
Han® RJ45 module	- 8 contacts - cat. 6 _A - 10 Gbit/s				
	Part numbers	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
		Adapter for patch cable: 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® Modules		Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax
	Quintax modul				
	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 mm ²	0.09 ... 0.52 mm ²	0.14 ... 2.5 mm ²	0.14 ... 4 mm ²
	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		Han® GigaBit module			Han® Shielded Module
	Adapter Module				
	Male module (M)	09 14 001 3011			09 14 001 3011
	Female module (F)	09 14 001 3111			09 14 001 3111
	Insert (Cable Ø ≤ 14 mm)				
	Number of contacts	8			20
	Data rate	10 Gbit/s (cat. 6 _A)			
	Electrical data	5 A / 50 V			4 A / 32 V
	Cross-section	0.09 ... 0.52 mm ²			0.09 ... 0.52 mm ²
	Termination type	Crimp termination, D-Sub			Crimp termination, D-Sub
Shielding termination	Crimp flange			Crimp flange	
Male insert (M)	09 14 008 3011			09 14 020 3013	
Female insert (F)	09 14 008 3111			09 14 020 3113	
	with PE shielding termination				
Male insert (M)	09 14 008 3012				
Female insert (F)	09 14 008 3112				
Serial Bus Modules		Han D-Sub module	Han® USB module	Han® FireWire module	
	Number of contacts	9 + shielding	8	6	
	Data rate	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 mm ²			
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

100 - 200 A		Han® 200 A Axial Module			
	Number of contacts				
	Electrical data	1* 200 A / 1000 V			
	Termination type	Axial screw termination			
	Cross-section	40 ... 70 mm ²			
	Male module (M)	09 14 001 2662			
	Female module (F)	09 14 001 2762			
	Cross-section	25 ... 40 mm ²			
Male module (M)	09 14 001 2663				
Female module (F)	09 14 001 2763				
40 - 70 A				Han® 40 A Axial module	Han® C Axial module
	Number of contacts				
	Electrical data			2 40 A / 1000 V	3 40 A / 690 V
	Termination type			Axial screw termination	Axial screw termination
	Cross-section			6 ... 10 mm ²	6 ... 10 mm ²
	Male module (M)			09 14 002 2602	09 14 003 2602
	Female module (F)			09 14 002 2702	09 14 003 2702
	Cross-section			2.5 ... 8 mm ²	2.5 ... 8 mm ²
Male module (M)			09 14 002 2601	09 14 003 2601	
Female module (F)			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				
	Electrical data	6 16 A / 500 V	8 16 A / 400 V	5 16 A / 400 V	5 16 A / 230/400 V
	Termination type	Quick Lock termination	Quick Lock termination	Cage clamp termination	Screw termination
	Cross-section	0.5 ... 2.5 mm ²	0.5 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.5 ... 2.5 mm ²
	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				
	Electrical data	12, silver plated 10 A / 250 V	12, gold plated 10 A / 250 V		
	Termination type	Quick Lock termination	Quick Lock termination		
	Cross-section	0.25 ... 1.5 mm ²	0.25 ... 1.5 mm ²		
Male module (M)	09 14 012 2632	09 14 012 2634			
Female module (F)	09 14 012 2732	09 14 012 2734			
Axial screw termination	Hexagonal drivers	with grip	Bit 1/4"	Adapter 3/8"	Hexagonal torque set
					
	2 mm (40 A)	09 99 000 0313	09 99 000 0369		09 99 000 0834
	2.5 mm (70 A)		09 99 000 0375		09 99 000 0834
	4 mm (100 A)	09 99 000 0363		09 99 000 0370	09 99 000 0833
	5 mm (200 A)	09 99 000 0364		09 99 000 0371	09 99 000 0833

* Double module, requires two places in the frame

Modules for different Media



		Han® Multi Module (for D-Sub coaxial contacts)		Han® Multi Module (for DIN 41626 coaxial contacts)		
Coaxial Modules						
	Number of contacts	4		12*		
	Male module (M)	09 14 004 4501	09 14 004 4501	09 14 012 4501	09 14 012 4501	
	Female module (F)	09 14 004 4513	09 14 004 4513	09 14 012 4512	09 14 012 4512	
	Coaxial contacts (≤ 2 GHz)					
	Impedance	75 Ω		75 Ω		
	Coaxial cable	RG179, RG187		RG179, RG187		
Termination type	Crimp /crimp termination		Solder /crimp termination			
Male contact	09 69 282 5230		09 69 282 5140			
Female contact	09 69 182 5230		09 69 182 5140			
Optical Modules		Han® LC module		Han® SC module		
	Number of contacts	6		4		
	Male module (M)	09 14 006 4701		09 14 004 4701		
	Female module (F)	09 14 006 4711		09 14 004 4711		
	Contacts					
	1 mm POF			20 10 001 5211		
	1 mm POF Fast assembly termination			Male: 20 10 001 4211 Female: 20 10 001 4221		
	SI-Fibre 200 / 230 µm Multi-Mode			20 10 230 5211		
	GI-Fibre 50-62,5 / 125 µm Multi-Mode	20 10 125 8211		20 10 125 5211		
GI-Fibre 9 / 125 µm Single-Mode	20 10 125 8220		20 10 125 5220			
Further Modules		Han-Eco® Monoblock		Han-Eco® PE module		
	Field of application	for Han-Eco® hoods/housings only		for Han-Eco® hoods/housings only		
	Number of contacts	10, 14, 20, 28 + PE		1 x PE		
	Electrical data	16 A / 500 V		1.5 ... 16 mm²		
	Cross-section	0.5 ... 2.5 mm²		Screw termination		
Termination type	Screw termination					
Male module (M)	19 41 0xx 2601		19 41 001 2600			
Female module (F)	19 41 0xx 2701		19 41 001 2700			
			Han® Dummy module			
			to fill-up empty module places			
			Han® Pneumatic module metal			
			3			
			09 14 003 3501			
			09 14 003 3501			
Contacts for pneumatic modules		Pneumatic contacts (max. 10 bar)			Adapter	
	For tube outer diameter					
	Tube-Ø	6 mm OD			4 mm OD	
	Male contact	09 14 000 6356			09 14 000 6354	
	Female without shut-off	09 14 000 6456			09 14 000 6454	
	Female with shut-off	09 14 000 6466			09 14 000 6464	
	For tube inner diameter					
	Tube-Ø	6 mm ID			4 mm ID	
	Male contact	09 14 000 6306			09 14 000 6304	
	Female without shut-off	09 14 000 6406			09 14 000 6404	
Female with shut-off	09 14 000 6416			09 14 000 6414		

* Double module, requires two places in the frame



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