



ELECTRON CONNECTOR SERIES

電子電源接頭系列

CE RoHS



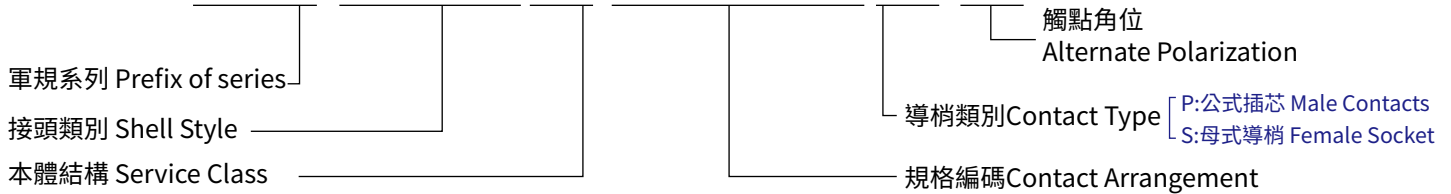
軍規接頭

MS CONNECTOR (MIL-DTL-5015)



產品型號： (Ordering Information)

MS 3106 A 20 - 16 P W



材質 Standard Material and Finishes

本體外殼 Shell (MIL-STD)	鋁合金壓鑄，表層鍍鉻 Aluminum alloy, Conductive olive drab chromate.
絕緣體 Insulator	人工橡膠 Synthetic Rubber
防潮墊圈 Grommet and Seal	人工橡膠 Synthetic Rubber
觸點插芯 Contacts	銅合金表層鍍銀 Copper alloy with silver-plated
工作耐溫 Temperature Range	-55°C to 125°C

電壓/電流表 Electrical Specification

電壓 Voltage Treatment			
Class	Operating Volt AC (交流電)	Operating Volt DC (直流電)	Withstanding volt(AC) Rms/minute (瞬間電壓)
Inst.	200V	250V	1,000
A	500V	700V	2,000
D	900V	1,250V	2,800
E	1,250V	1,750V	3,500
B	1,750V	2,450V	4,500
C	3,000V	4,200V	7,000

電流 Current Treatment			
Contact Size (插芯規範)	Rated Current Amps (定格電流)	Minute Current Amps (瞬間電流)	Contact Resistance (M Ω Max) At Dc 1A (接觸抗阻)
#16	13A	20A	21
#12	23A	35A	20
#8	46A	60A	12
#4	80A	110A	10
#0	150A	200A	10

軍規接頭

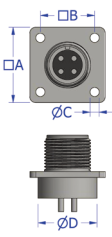
MS CONNECTOR (MIL-DTL-5015)

軍規接頭規範 Assembling of MIL-DTL-5015 Connectors

Insert (規格代碼)	No. of Contacts (芯數)	Contact Types (插芯類別)					Voltage Class
		0	4	8	12	16	
10SL-3	3					3	A
10SL-4	2					2	A
14S-1	3					3	A
14S-2	4					4	Inst.
14S-5	5					5	Inst.
14S-6	6					6	Inst.
14S-7	3					3	A
14S-9	2					2	A
16S-1	7					7	A
16S-4	2					2	D
16S-5	3					3	A
16S-8	5					5	A
16-9	4				2	2	A
16-10	3				3		A
16-11	2				2		A
18-1	10					10	A/Inst.
18-3	2				2		D
18-4	4					4	D
18-5	3				2	1	D
18-8	8				1	7	A
18-9	7				2	5	Inst.
18-10	4				4		A
18-11	5				5		A
18-12	6					6	A
18-19	10					10	A
18-20	5					5	A
18-22	3					3	D
20-3	3				3		D
20-4	4				4		D
20-11	13					13	Inst.
20-15	7				7		A
20-16	9				2	7	A
20-17	6				5	1	A
20-18	9				3	6	A
20-19	3			3			A
20-23	2			2			A
20-27	14					14	A
20-29	17					17	A
20-33	11					11	A
22-1	2			2			D
22-2	3			3			D
22-5	6				2	4	D

Insert (規格代碼)	No. of Contacts (芯數)	Contact Types (插芯類別)					Voltage Class
		0	4	8	12	16	
22-7	1					1	E
22-10	4					4	E
22-14	19					19	A
22-19	14					14	A
22-22	4			4			A
22-23	8				8		A/D
24-2	7				7		D
24-6	8				8		A/D
24-7	16				2	14	A
24-10	7			7			A
24-11	9			3	6		A
24-12	5		2		3		A
24-20	11				2	9	D
24-22	4			4			D
24-28	24					24	Inst.
28-6	3		3				D
28-9	12				6	6	D
28-10	7		2	2	3		A/D
28-11	22				4	18	A
28-12	26					26	A
28-15	35					35	A
28-16	20					20	A
28-17	15					15	A/B/D
28-19	10				4	6	A/B/D
28-20	14				10	4	A
28-21	37					37	A
28-22	6		3			3	D
32-1	5	2			3		D/E
32-6	23		2	3	2	16	A
32-7	35				7	28	A/Inst.
32-8	30				6	24	A
32-15	8	2			6		D
32-17	4		4				D
32-22	54					54	A
36-1	22				4	18	D
36-3	6	3			3		D
36-4	3	3					A/D
36-5	4	4					A
36-7	47				7	40	A
36-8	47				1	46	A
36-9	31		1	2	14	14	A
36-10	48					48	A

外殼尺寸 Shell Size

 外殼尺寸 Shell Size	10SL	14S	16、16S	18	20	22	24	28	32	36
	□ A	25.40	30.18	32.54	34.93	38.10	41.28	44.45	50.80	57.15
□ B	18.26	23.01	24.61	26.97	29.36	31.75	34.93	39.67	44.45	49.23
∅ C	3.05	3.05	3.05	3.05	3.05	3.05	3.73	3.73	4.39	4.39
∅ D	20.62	23.83	26.97	30.18	33.32	36.53	39.97	46.02	52.37	58.72

∅ D: 代表開孔尺寸 (Mount Hole)

• 防護等級 IP68

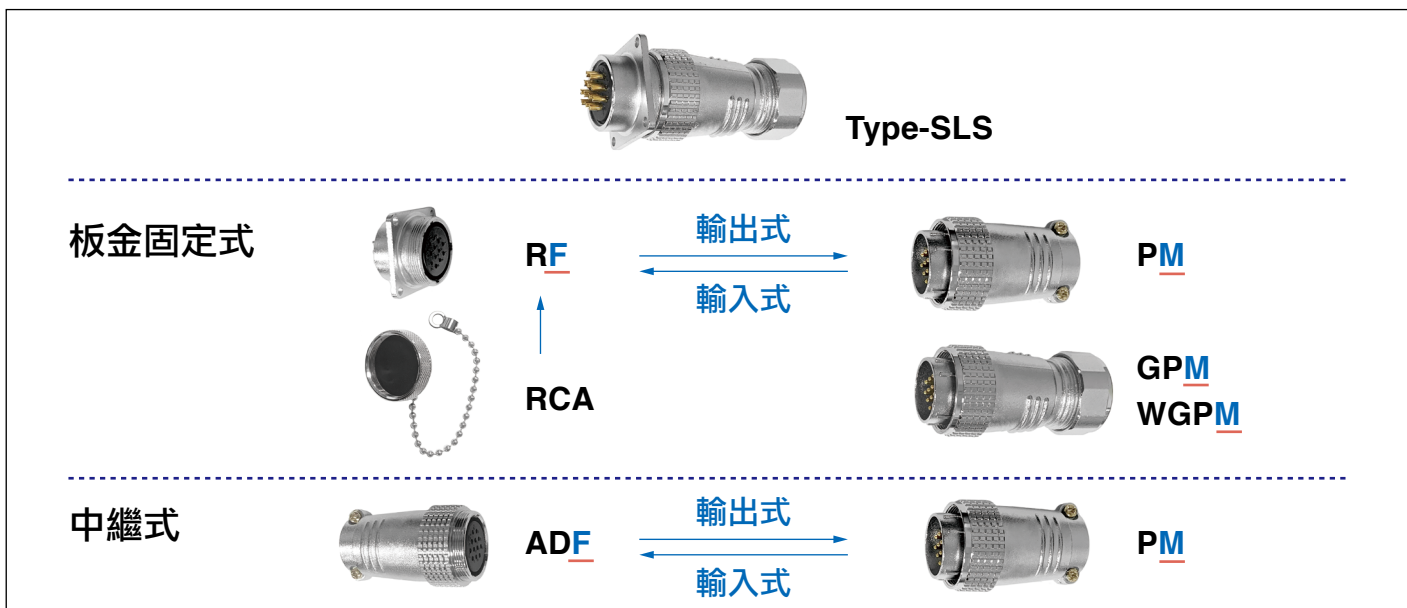
• Protection degree IP68.

SLS 電子電源接頭 (矩形座)



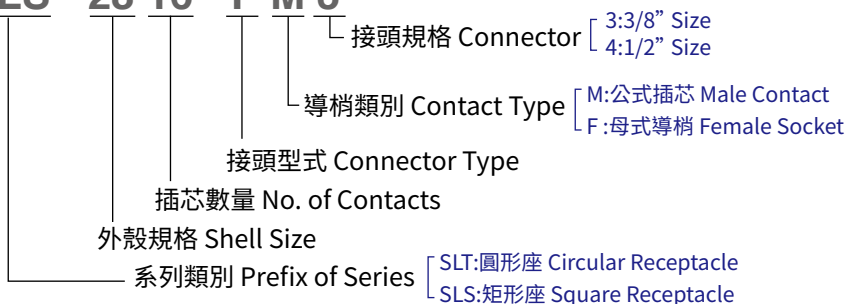
SLS ELECTRON CONNECTORS (Square receptacle)

美國UL認證登錄：E313914。US UL (Underwriters Laboratories) certified,NO:E313914。



產品型號： (Ordering Information)

SLS - 28 16 - P M 3



接頭型式 Connector Type

P	插頭	Plug
R	插座	Receptacle
AD	中繼式	Adapter
GP	金屬管式	Conduit pattern
WGP	尼龍管式	Nylon tube pattern
RT	絕緣膠管	Rubber bushing
RCA	保護蓋	Protective caps

SLS 電源接頭規範 SLS Aessembling of Configuration connectors

Insert (規格代碼)	No. of Contacts (芯數)	Pin size (Diameter mm) (插芯規格)	Rated Current/Voltage (額定電流/電壓)	Operated Voltage (工作電壓)
SLS -202	2	2.0	20A/250V	250V
SLS -203	3	2.0	20A/250V	250V
SLS -204	4	1.7	15A/250V	200V
SLS -207	7	1.7	10A/150V	200V
SLS -2410	10	1.7	5A/380V	400V
SLS -284	4	2.4	25A/400V	500V

Insert (規格代碼)	No. of Contacts (芯數)	Pin size (Diameter mm) (插芯規格)	Rated Current/Voltage (額定電流/電壓)	Operated Voltage (工作電壓)
SLS -287	7	2.1	23A/300V	380V
SLS -2812	12	1.5	10A/150V	250V
SLS -2816	16	1.5	10A/150V	250V
SLS -2817	17	1.5	10A/150V	250V
SLS -2820	20	0.9	7A/150V	150V
SLS -2826	26	0.9	7A/150V	150V

SLS 外殼尺寸 Shell Size

外殼尺寸 Shell Size	20	24	28
□ A	29.0	32.0	35.0
□ B	23.0	26.0	29.0
∅ C	3.3	3.3	3.5
∅ D	20	24	28

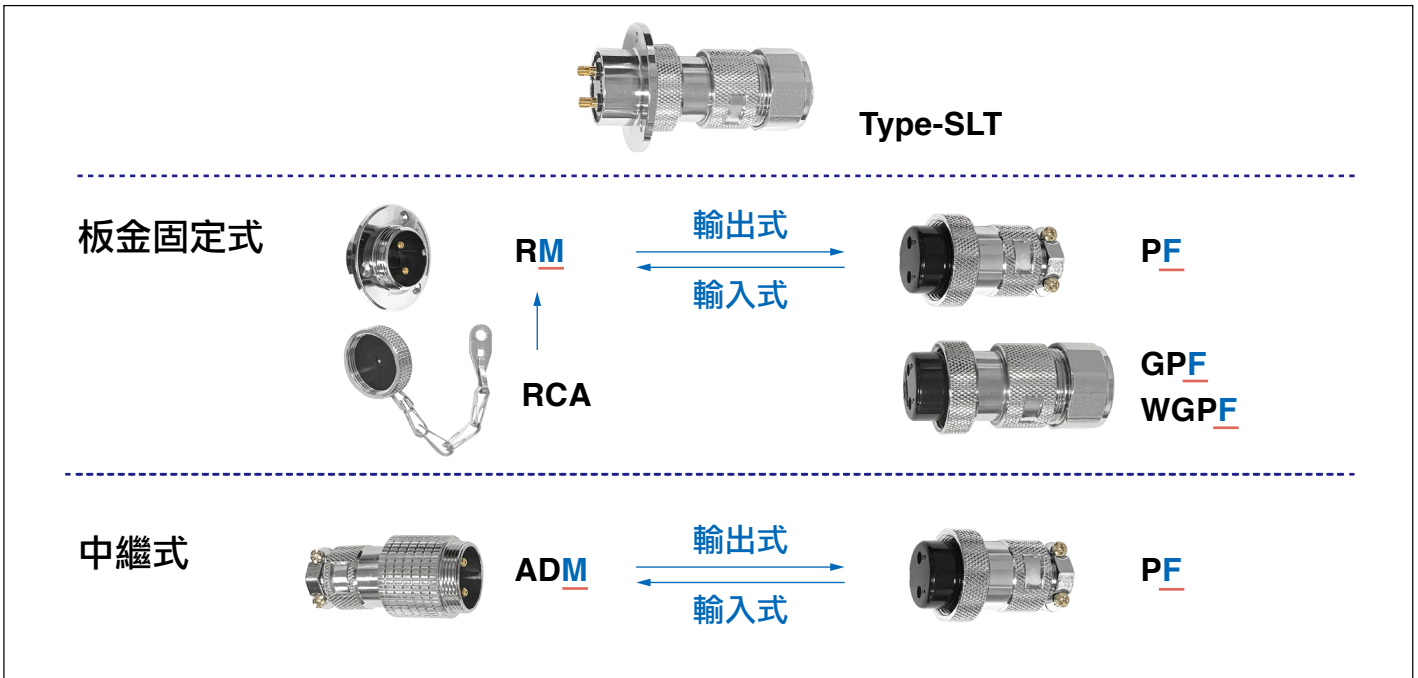
∅ D: 代表開孔尺寸(Mount Hole)

SLT 電子電源接頭 (圓形座)

RoHS

SLT ELECTRON CONNECTORS (Circular receptacle)

美國UL認證登錄：E313914。US UL (Underwriters Laboratories) certified,NO:E313914。



材質 Standard Material and Finishes

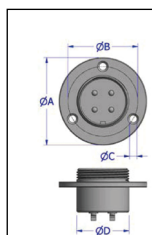
本體外殼Shell	鋅合金壓鑄表層鍍鉻	Zinc die-casting with chrome-plated
絕緣體 Insulator	電木	Bakelite
防潮墊圈 Grommet and Seal	人工橡膠	Synthetic Rubber
觸點插蕊 Contacts	銅合金表層鍍鎳或銀	Copper alloy with nickel or silver-plated

SLT 電源接頭規範 SLT Aessembling of Configuration connectors

Insert (規格代碼)	No. of Contacts (芯數)	Pin size (Diameter mm) (插芯規格)	Rated Current/Voltage (額定電流/電壓)	Operated Voltage (工作電壓)
SLT-162	2	1.6	7A/125V	200V
SLT-163	3	1.6	7A/125V	200V
SLT-164	4	1.6	7A/125V	200V
SLT-165	5	1.2	7A/125V	200V
SLT-166	6	0.9	5A/125V	200V
SLT-167	7	0.9	5A/125V	200V
SLT-168	8	0.9	5A/125V	200V
SLT-192	2	2.0	10A/250V	250V
SLT-193	3	2.0	7A/250V	250V
SLT-194	4	2.0	7A/250V	250V
SLT-252	2	2.4	15A/250V	400V
SLT-253	3	2.4	10A/250V	400V
SLT-254	4	2.4	10A/250V	400V

Insert (規格代碼)	No. of Contacts (芯數)	Pin size (Diameter mm) (插芯規格)	Rated Current/Voltage (額定電流/電壓)	Operated Voltage (工作電壓)
SLT-255	5	2.4	10A/250V	400V
SLT-256	6	2.4	7A/150V	250V
SLT-302	2	2.4	20A/300V	500V
SLT-303	3	2.4	20A/300V	500V
SLT-304	4	2.4	15A/250V	400V
SLT-305	5	2.4	10A/250V	400V
SLT-307	7	2.4	10A/150V	250V
SLT-308	8	2.4	7A/150V	200V
SLT-404	4	4.0	30A/250V	500V

SLT 外殼尺寸 Shell Size



外殼尺寸 Shell Size	16	19	25	30	40
ø A	-	33.0	42.0	46.0	58.0
ø B	-	26.0	33.5	38.0	50.0
ø C	-	3.5	3.5	3.5	3.5
ø D	16	19	25	30	40
ø D: 代表開孔尺寸 (Mount Hole)					

HARTING 歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Summary Han® – Size 3A, 10A, 16A, 32A



A



Hood side-entry



Hood top-entry

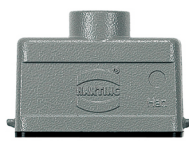


3

3+ ⊕ Screw termination 10 A 230 / 400V 1 ... 1.5 mm ² 09 20 003 2611 09 20 003 2711	3+ ⊕ Quick Lock termination 10 A 230 / 400V 0.5 ... 2.5 mm ² 09 20 003 2633 09 20 003 2733	3+ ⊕ Quick Lock termination 10 A 230 / 400V 0.25 ... 1.5 mm ² 09 20 003 2634 09 20 003 2734	4+ ⊕ Screw termination 10 A 230 / 400V 1 ... 1.5 mm ² 09 20 004 2611 09 20 004 2711	4+ ⊕ Quick Lock termination 10 A 230 / 400V 0.5 ... 2.5 mm ² 09 20 004 2633 09 20 004 2733	4+ ⊕ Quick Lock termination 10 A 230 / 400V 0.25 ... 1.5 mm ² 09 20 004 2634 09 20 004 2734	8 Crimp termination 10 A -50 V / -120V 0.14 ... 2.5 mm ² 09 36 008 3001	8 Quick Lock termination 10 A -50 V / -120V 0.25 ... 1.5 mm ² 09 36 008 2632 09 36 008 2732
2+ ⊕ Crimp termination 40 A 400 V 1.5 ... 10 mm ² 09 12 002 3051 09 12 002 3151	3+ ⊕ Crimp termination 40 A 400 V 1.5 ... 10 mm ² 09 12 003 3051 09 12 003 3151	4 Crimp termination 40 A 830 V 1.5 ... 10 mm ² 09 12 004 3051 09 12 004 3151	5+ ⊕ Crimp termination 16 A 230 / 400 V 0.14 ... 2.5 mm ² 09 12 005 3001 09 12 005 3101	5+ ⊕ Quick Lock termination 16 A 230 / 400 V 0.5 ... 2.5 mm ² 09 12 005 2633 09 12 005 2733	7+ ⊕ Crimp termination 10 A 400 V 0.14 ... 2.5 mm ² 09 12 007 3001 09 12 007 3101	12+ ⊕ Crimp termination/ Quick Lock termination 10 A 400 V 0.14 ... 2.5 mm ² 09 12 012 3001 09 12 012 3101	21 Quick Lock termination 6.5 A ~ 50 V / - 120 V 0.09 ... 0.56 mm ² 09 12 021 3001 09 12 021 3101



Hood top-entry

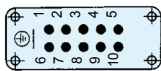


Hood side-entry



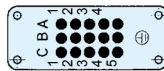
10

250 V
16 A
Han A®
chapter 01



10+ ⊕

250 V
10 A
Han D®
chapter 02



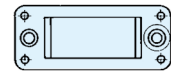
15+ ⊕

50 V
10 A
Staf®
chapter 09



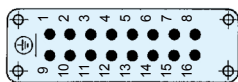
14

50 V – 1000 V
10 A – 40 A
Han-Modular®
chapter 06

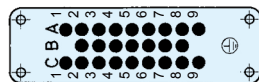


1 module

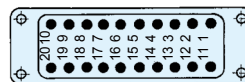
16



16+ ⊕



25+ ⊕



20

Housing bulkhead mounting



Housing surface mounting



Hood cable to cable coupling



suitable for 2 inserts of size 16 A

HARTING 歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Summary Han® – Size 6B, 10B, 16B, 24B, 32B, 48B



B



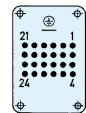
Hood side-entry



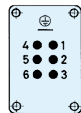
Hood top-entry

250 V 10 A Han D® chapter 02	250 V 10 A Han DD® chapter 02	500 V 16 A Han E® Han® ES chapter 03	500 V 16 A Han® EE Han® EEE chapter 03	400/690 V 35 A Han® HsB chapter 07	830 V 16 A Han Hv E® Han® Hv ES chapter 04	250 V – 690 V 10 A – 100 A Han-Com® chapter 05	50 V – 1000 V 5 A – 100 A Han-Modular® chapter 06
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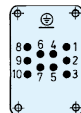
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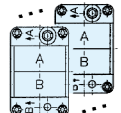
24 + ⊖



6 + ⊖

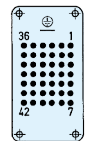


10 + ⊖

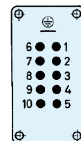


2 modules

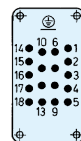
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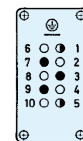
42 + ⊖



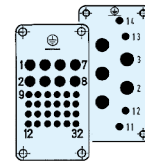
10 + ⊖



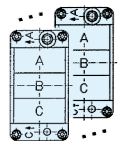
18 + ⊖



3 + ⊖

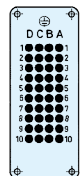


4/4 + ⊖
8/24 + ⊖

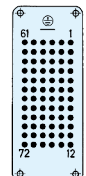


3 modules

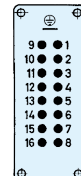
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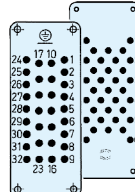
40 + ⊖



72 + ⊖



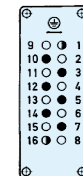
16 + ⊖



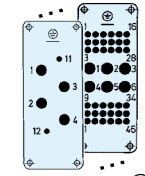
40 + ⊖
32 + ⊖



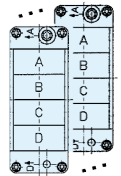
6 + ⊖



6 + ⊖

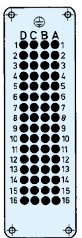


6/36 + ⊖
4/2 + ⊖

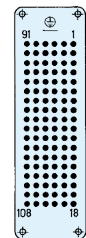


4 modules

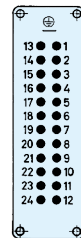
24



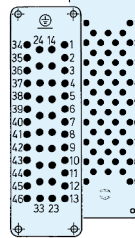
64 + ⊖



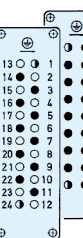
108 + ⊖



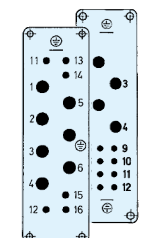
24 + ⊖



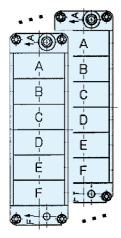
64 + ⊖
46 + ⊖



16 + ⊖
10 + ⊖

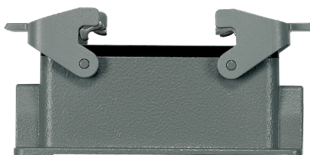


4/8 + ⊖
6/6 + ⊖



6 modules

Housing surface mounting



Housing bulkhead mounting



Hood cable to cable coupling



32

suitable for 2 inserts of size 16 B

48

suitable for 2 inserts of size 24 B

HARTING歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Han-Modular® Frames 連接器框架



New Hinged Frames Plus – Established products even better 新框架

- Suitable for more than 100 different modules**
- Quick and easy assembly supported by an audible "Click"**
- Very high mechanical stability**
- No tools for insertion and removal**
- 2 leading PE contacts**

Hinged Frames Plus

Size	Hinged frames 6 B	Hinged frames 10 B	Hinged frames 16 B	Hinged frames 24 B
Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules
Standard version (A ... F)	09 14 006 0361	09 14 010 0361	09 14 016 0361	09 14 024 0361
Standard version (a ... f)	09 14 006 0371	09 14 010 0371	09 14 016 0371	09 14 024 0371
Han® HMC version (A ... F)	09 14 206 0361	09 14 210 0361	09 14 216 0361	09 14 224 0361
Han® HMC version (a ... f)	09 14 206 0371	09 14 210 0371	09 14 216 0371	09 14 224 0371

Accessories

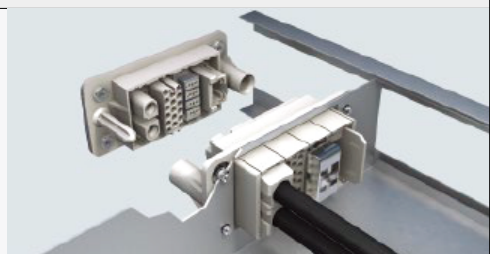
Size	PE terminal extension (cable shoe 16 mm ²)	Coding element Han® 6 B - 24 B	Guide pins / bushes Han® 6 B - 24 B	Han® 10 A frame for 1 module
Hint	for hoods/housings high construction only	6 codings	16 codings	
Part number	09 14 000 9912	09 14 000 9901	Male: 09 14 000 9908 Female: 09 14 000 9909	09 14 000 0304

* for pneumatic, optical as well as small contacts (≤ 5 A) guide pins and bushes are recommended

Docking frame

Docking frame 對接框架

- Docking connector for drawer systems
- Robust, leading guide pins and bushes
- Cost saving polycarbonate frames
- Compatible with HMC up to 10.000 mating cycles
- Large tolerance compensation of ± 2 mm play (float mount with M4 adapter plate 09 14 000 9936)



Size	Docking frames 6 B	Docking frames 10 B	Docking frames 16 B	Docking frames 24 B
Number of modules	for 2 modules	for 3 modules	for 4 modules	for 6 modules
Dimensions	65.8 x 33 mm	79.3 x 45 mm	94 x 45 mm	123.4 x 45 mm
float mounting (A ... F)	09 14 006 1701	09 14 010 1701	09 14 016 1701	09 14 024 1701
fix mounting (a ... f)	09 14 006 1711	09 14 010 1711	09 14 016 1711	09 14 024 1711

HARTING 歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Power and Signal Modules – Crimp termination 動力/信號模組(壓接式)



		Han® PE module (Including crimp contact for earthing)			
PE	Number of contacts	1 x PE	1 x PE	1 x PE	
	Cross-section	35 mm ²	25 mm ²	16 mm ²	
Termination type	Crimp termination, Han® HC				
Male module (M)	09 14 001 3074	09 14 001 3073	09 14 001 3072		
Female module (F)	09 14 001 3174	09 14 001 3173	09 14 001 3172		
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			
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®			
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®			
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	
High Voltage		Han® HV module 40 A	Han® HV module 16 A	Han® HV single module	Han® Dummy module to fill-up empty module places
	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 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	
	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	09 14 000 9950	

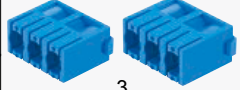























* Double module, requires two places in the frame

HARTING 歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Data Transfer Modules 數據訊號傳輸模組



Han® RJ45 module	for patch cable	for IDC	for patch cable	Han® Pneumatic module metal  3 3, 4, 6 mm 09 14 003 3501 09 14 003 3501	
					
	Male module (M) 09 14 001 4623	Male module (M) 09 14 001 4623	Female module (F) 09 14 001 4721		
	Adapter for patch cable: 09 14 000 9966	RJ Industrial IDC: 09 45 400 1560			
Part numbers	Patch cable cat. 6: 09 47 474 71xx				
Han-Quintax® Modules	Han-Quintax®	Han® High Density Quintax	Han D® Coax	Han E® Coax	
					
	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® MegaBit Modules	Han® GigaBit module	Han® MegaBit module with 2 cable entries	Han® MegaBit module with 1 cable entry	Han® SC module	
				 4	
	Male module (M)	09 14 001 3011	09 14 001 3011	09 14 001 3011	09 14 004 4701
	Female module (F)	09 14 001 3111	09 14 001 3111	09 14 001 3111	09 14 004 4711
	Insert (Cable Ø ≤ 14 mm)				
	Number of contacts	8	2 x 4	8	20 10 001 5211
	Data rate	10 Gbit/s (cat. 6A)	2 x 100 Mbit/s (cat. 5e)	1 Gbit/s (cat. 5e)	20 10 001 5217
	Electrical data	5 A / 50 V	10 A / 50 V	10 A / 50 V	20 10 230 5211
	Cross-section	0.09 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	20 10 125 5211
	Termination type	Crimp termination, D-Sub	Crimp termination, Han D®	Crimp termination, Han D®	20 10 125 5220
Shielding termination	Crimp flange	2 x crimp flange	Crimp flange		
Male insert (M)	09 14 008 3011	09 14 008 3016	09 14 008 3021		
Female insert (F)	09 14 008 3111	09 14 008 3116	09 14 008 3121		
	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		
Serial Bus Modules	Han D-Sub module	Han® USB module	Han® FireWire module	Han® ID CAN module	
					
	Number of contacts	9 + shielding	8	6	7
	Data rate	12 Mbit/s (Profibus)	5 Gbit/s (USB 3.0)	400 Mbit/s (IEEE 1394a)	1 Mbit/s (CAN bus)
	Electrical data	5 A / 50 V	1 A / 50 V	1 A / 50 V	24 V
	Cross-section	0.09 ... 0.52 mm ²			0.13 ... 1.5 mm ²
Termination type	Crimp termination, D-Sub	USB patch cable	FireWire patch cable	Cage clamp termination	
Male module (M)	09 14 009 3001	09 14 001 4601	09 14 001 4611	09 80 015 0100	
Female module (F)	09 14 009 3101	09 14 001 4703	09 14 001 4711	09 80 115 0200	

* Double module, requires two places in the frame

HARTING歐式重載連接器

HARTING EUROPEAN HEAVY DUTY CONNECTOR

Crimp Contacts and Crimping Tools 壓接針/壓接工具



5 A - D-Sub	Cross-section / Wire gauge				male	female	male	female
	(mm ²)	(AWG)			(gold plated)	(gold plated)	(HMC gold plated)	(HMC gold plated)
	0.09 - 0.25	28 - 24						
	0.13 - 0.33	26 - 22			09 67 000 7576	09 67 000 7476	09 67 000 7570	09 67 000 7470
	0.25 - 0.52	24 - 20			09 67 000 5576	09 67 000 5476	09 67 000 5570	09 67 000 5470
					09 67 000 8576	09 67 000 8476	09 67 000 8570	09 67 000 8470

10 A - Han D®	Cross-section / Wire gauge		male	female	male	female	male	female
	(mm ²)	(AWG)	(silver plated)	(silver plated)	(gold plated)	(gold plated)	(HMC gold plated)	(HMC gold plated)
	0.14 - 0.37	26 - 22						
	0.5	20	09 15 000 6104	09 15 000 6204	09 15 000 6124	09 15 000 6224	09 15 200 6124	09 15 200 6224
	0.75	18	09 15 000 6103	09 15 000 6203	09 15 000 6123	09 15 000 6223	09 15 200 6123	09 15 200 6223
	1	18	09 15 000 6105	09 15 000 6205	09 15 000 6125	09 15 000 6225	09 15 200 6125	09 15 200 6225
	1.5	16	09 15 000 6102	09 15 000 6202	09 15 000 6122	09 15 000 6222	09 15 200 6122	09 15 200 6222
	2.5	14	09 15 000 6101	09 15 000 6201	09 15 000 6121	09 15 000 6221	09 15 200 6121	09 15 200 6221
			09 15 000 6106	09 15 000 6206	09 15 000 6126	09 15 000 6226	09 15 200 6126	09 15 200 6226

16 A - Han E®	Cross-section / Wire gauge		male	female	male	female	male	female
	(mm ²)	(AWG)	(silver plated)	(silver plated)	(gold plated)	(gold plated)	(HMC gold plated)	(HMC gold plated)
	0.14 - 0.37	26 - 22						
	0.5	20	09 33 000 6127	09 33 000 6227	09 33 000 6117	09 33 000 6217	09 33 200 6117	09 33 200 6217
	0.75	18	09 33 000 6121	09 33 000 6221	09 33 000 6122	09 33 000 6222	09 33 200 6122	09 33 200 6222
	1	18	09 33 000 6114	09 33 000 6214	09 33 000 6115	09 33 000 6215	09 33 200 6115	09 33 200 6215
	1.5	16	09 33 000 6105	09 33 000 6205	09 33 000 6118	09 33 000 6218	09 33 200 6118	09 33 200 6218
	2.5	14	09 33 000 6104	09 33 000 6204	09 33 000 6116	09 33 000 6216	09 33 200 6116	09 33 200 6216
	3	12	09 33 000 6102	09 33 000 6202	09 33 000 6123	09 33 000 6223	09 33 200 6123	09 33 200 6223
	4	12	09 33 000 6106	09 33 000 6206				
			09 33 000 6107	09 33 000 6207	09 33 000 6119	09 33 000 6221	09 33 200 6119	09 33 200 6221

40 A - Han® C	Cross-section / Wire gauge		male	female			male	female
	(mm ²)	(AWG)	(silver plated)	(silver plated)			(HMC gold plated)	(HMC gold plated)
	1.5	16						
	2.5	14	09 32 000 6104	09 32 000 6204			09 32 200 6114	09 32 200 6224
	4	12	09 32 000 6105	09 32 000 6205			09 32 200 6115	09 32 200 6225
	6	10	09 32 000 6107	09 32 000 6207			09 32 200 6117	09 32 200 6227
	10	8	09 32 000 6108	09 32 000 6208			09 32 200 6118	09 32 200 6228
			09 32 000 6109	09 32 000 6209			09 32 200 6119	09 32 200 6229

壓接工具 Crimping tools	Crimping tools acc. to IEC 60352-2	09 99 000 0501	09 99 000 0021	09 99 000 0110	09 99 000 0303	09 99 000 0377	09 99 000 0888
	Contacts / cross-section [mm ²]	D-Sub / 0.09 ... 0.52	Han D® / 0.14 ... 1.5 Han E® / 0.5 ... 2.5	Han D® / 0.14 ... 1.5 Han E® / 0.5 ... 4.0 Han® C / 1.5 ... 4.0		Han® C / 4.0 ... 10.0 Han® C / 6.0 ... 10.0	Han D® / 0.14 ... 2.5 Han E® / 0.14 ... 4.0 Han® C / 1.5 ... 4.0

壓接端子的插入 / 拆卸工具 Insertion / removal tools for crimp contacts	Identification	mm ²	Part number	Depiction
		Insertion tool for crimp contacts small cross-section, variable length of blade Han D®, Han E®, Han-Yellock® When using cross-sections below 0.75 mm ² an insertion tool for inserting the contact into the insert is recommended.		09 99 000 0847
	Han D®, Removal tool for crimp contacts		09 99 000 0012	
	Han® C, Removal tool for crimp contacts	1.5 - 6 10	09 99 000 0305 09 99 000 0381	
	Han E®, Removal tool for crimp contacts		09 99 00 0319	
	D-Sub, Insertion / removal tool for crimp contacts		09 99 000 0368	

JN1 電子電源接頭

JN1 ELECTRON CONNECTORS

產品型號：(Ordering Information (JAE))

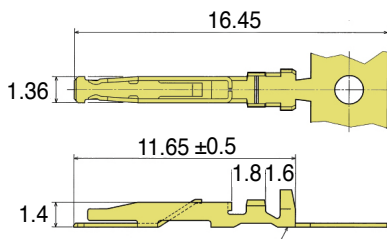
系列代碼 Series	JN1	D	S	04	F	K	2	X	連接鍵 Mating key type NONE-標準型 Normal X-代替角位 Alternate insert position
接頭造型 Shell style	D-直型 Straight F-彎型 Angle								電纜直徑 Cable diameter 1- ϕ 5.7~ ϕ 7.3 2- ϕ 6.5~ ϕ 8.0
外殼規格 Shell size									插芯規格 Contact size K-#20 L-#22
插芯數量 No. of contacts	04-4Pin 10-10Pin								連接方式 Connection method S-束緊式 Crimp socket (10pos.only) F-焊接式 Socket with soldering
連接鍵 Mating key type	NONE-標準型 Normal X-代替角位 Alternate insert position								



TYPE-JN1D
直型 Straight (D)



TYPE-JN1F
彎型 Angle (F)



適用電線識別表示
APPLICABLE WIRE IDENTIFICATION MARKING

電壓/電流表 Electrical Specification

芯數 NO. of Contacts	4P	10P
電流容量 Current Capacity	5A	3A
瞬間電壓 Withstanding Voltage	2000V(RMS)	900V(RMS)
插芯材質 Plug Materials	Copper alloy cold-plated	Copper alloy silver-plated
絕緣抗阻 Insulation Resistance	1000 Megohms	
外殼材質 Shell Materials	人工樹脂 Synthetic resin	
工作耐溫 Temperature Range	-20°C to +125°C	
防護等級 Protection Degree	IP67	

插芯規範 Socket Contact Specification

Contact P/N (ITEM)	Applicable Wire		pcs/Packing
	Conductor Size	Insulation Dia	
JN1-22-22S	21~25AWG	Ø1.5	10000 pcs /reel

CM10 電子電源接頭

CM10 ELECTRON CONNECTORS

產品型號：(Ordering Information (DDK))

系列代碼 Series	CM10 - SP - 2S - S	標準規格 Normal Size (suit for cable size) S- ϕ 4.0~ ϕ 6.0 M- ϕ 6.0~ ϕ 9.0 L- ϕ 9.0~ ϕ 11.6
接頭造型 Shell style	SP-直型 Straight AP-彎型 Angle	
插芯數量 No. of Contacts	2S-2Pin 10S-10Pin	

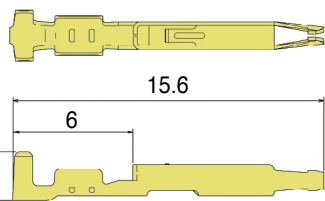


TYPE-CM10SP
直型 Straight (SP)



TYPE-CM10AP
彎型 Angle (AP)

CM10-#22SC(C2)(D8)- □□□□



材質/電壓/電流表 Material / Electrical Specification

芯數 No. of Contacts	2P	10P
電流容量 Current Capacity	3A	3A
瞬間電壓 Withstanding Voltage	1500V(RMS)	900V(RMS)
定額電壓 Rated Voltage	200V	
絕緣抗阻 Insulation Resistance	1000 (MΩ、MIN) At DC500V	
插芯材質 Rated Voltage	Copper alloy (Cold-Plated)	
本體材質 Insulation Resistance	Zinc alloy (Nickel-Plated)	
後蓋螺帽材質 Insulation Resistance	Plastic (UL94V-0 Black)	
工作耐溫 Rated Voltage	-20°C to +125°C	
防護等級 Insulation Resistance	IP67	

插芯規範 Socket Contact Specification

Contact P/N (ITEM)	Applicable Wire		pcs/Packing
	Conductor Size	Insulation Dia	
CM10-#22SC (C2-D8) (束緊式 Crimping)	23~28 AWG	Ø0.80~Ø1.5	1. 100 pcs/bag 2. 5000 pcs/reel