



Features

- Multi-faceted connector system consisting of modules, contacts, frames, hoods and housings
- Designed for 10,000 mating cycles
- Numerous possible combinations of power, data and signal
- Space saving due to combination of different transmission media in one single connector

Technical characteristics

Specifications DIN EN 60 664-1
 DIN EN 61 984

Approvals

Inserts	
Number of contacts	2 ... 25
Rated current	4 ... 40 A
Rated voltage	50 ... 830 V
Pollution degree	3
Material	Polycarbonate
Material outer conductor	Zinc alloy HMC
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 10,000

Technical characteristics

Contacts Han® C HMC

Material	Copper alloy
Surface	HMC gold plated
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm ²	1.5 ... 10 mm ²
- AWG	16 ... 8

Contacts Han D® HMC

Material	Copper alloy
Surface	HMC gold plated
Contact resistance	≤ 3 mΩ
Crimp terminal	
- mm ²	0.14 ... 2.5 mm ²
- AWG	26 ... 14

Contacts Han E® HMC












Material	Copper alloy
Surface	HMC gold plated
Contact resistance	≤ 1 mΩ
Crimp terminal	
- mm ²	0.14 ... 4 mm ²
- AWG	26 ... 12

Contacts D-Sub HMC

Material	Copper alloy
Surface	HMC gold plated
Contact resistance	≤ 10 mΩ
Crimp terminal	
- mm ²	0.08 ... 0.52 mm ²
- AWG	28 ... 20

Summary Han-Modular® HMC



Series	Han E® module	Han® EE module	Han E® Protected module	Han® EEE module
Number of contacts	6	8	6	20
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	16 A	16 A	16 A	16 A
Rated voltage	500 V	400 V	830 V	500 V
Wire gauge	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²
Male insert (M)	09 14 006 3001	09 14 008 3001	09 14 006 3041	09 14 020 3001
Female insert (F)	09 14 006 3101	09 14 008 3101	09 14 006 3141	09 14 020 3101
Series	Han DD® module	Han® DDD module	Han® High Density module	
Number of contacts	12	17	25	
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	
Rated current	10 A	10 A	4 A	
Rated voltage	250 V	160 V	50 V	
Wire gauge	0.14 ... 2.5 mm ²	0.14 ... 2.5 mm ²	0.08 ... 0.52 mm ²	
Male insert (M)	09 14 012 3001	09 14 017 3001	09 14 025 3001	
Female insert (F)	09 14 012 3101	09 14 017 3101	09 14 025 3101	
Series	Han® 40 A Crimp module	Han® C module	Han® CC Protected module	Han® CD module
Number of contacts	2	3	4	3 / 4
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	40 A	40 A	40 A	40 A / 10 A
Rated voltage	1000 V	690 V	830 V	830 V / 830 V
Wire gauge	1.5 ... 10 mm ²	1.5 ... 10 mm ²	1.5 ... 6 mm ²	0.15 ... 6 mm ² / 0.14 ... 2.5 mm ²
Male insert (M)	09 14 002 3002	09 14 003 3001	09 14 004 3041	09 14 007 3001
Female insert (F)	09 14 002 3102	09 14 003 3101	09 14 004 3141	09 14 007 3101

Summary Han-Modular® HMC



Series	Han® GigaBit HMC module	Han® MegaBit HMC module	Han® MegaBit HMC module	Han® Shielded HMC module
Numbers of contacts	8	2 x 4	2 x 4	20
Termination	Crimp termination 	Crimp termination 	Crimp termination 	Crimp termination 
Wire gauge	Ethernet Cat. 6 _A 0.08 ... 0.52 mm ²	Ethernet Cat. 5e 0.14 ... 2.5 mm ²	Ethernet Cat. 5e 0.14 ... 2.5 mm ²	0.08 ... 0.52 mm ²
Male insert (M)	09 14 208 3011	09 14 208 3016	09 14 208 3017	09 14 220 3013
Female insert (F)	09 14 208 3111	09 14 208 3116	09 14 208 3117	09 14 220 3113
Series	Hinged frame HMC 6 B	Hinged frame HMC 10 B	Hinged frame HMC 16 B	Hinged frame HMC 24 B
Number of modules	2	3	4	6
				
Marking (A...F)	09 14 206 0303	09 14 210 0303	09 14 216 0303	09 14 224 0303
Marking (a...f)	09 14 206 0313	09 14 210 0313	09 14 216 0313	09 14 224 0313
Series	Docking frame 6 B	Docking frame 10 B	Docking frame 16 B	Docking frame 24 B
Number of modules	2	3	4	6
				
Marking (A...F)	09 14 006 1701	09 14 010 1701	09 14 016 1701	09 14 024 1701
Marking (a...f)	09 14 006 1711	09 14 010 1711	09 14 016 1711	09 14 024 1711

Identification	Wire gauge mm ²	Partnumber Male contact	Partnumber Female contact	Drawing	Dimensions in mm																																			
Han® C HMC Crimp contact HMC gold plated for 40 A 	1.5 2.5 4.0 6.0 10.0	09 32 200 6114 09 32 200 6115 09 32 200 6119 09 32 200 6118 09 32 200 6117	09 32 200 6224 09 32 200 6225 09 32 200 6229 09 32 200 6228 09 32 200 6227		<table border="1"> <thead> <tr> <th>Wire gauge</th> <th>Ø</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>1.5 mm²</td> <td>AWG 16</td> <td>1.75</td> <td>9.5 mm</td> </tr> <tr> <td>2.5 mm²</td> <td>AWG 14</td> <td>2.25</td> <td>9.5 mm</td> </tr> <tr> <td>4 mm²</td> <td>AWG 12</td> <td>2.85</td> <td>9.5 mm</td> </tr> <tr> <td>6 mm²</td> <td>AWG 10</td> <td>3.5</td> <td>9.5 mm</td> </tr> <tr> <td>10 mm²</td> <td>AWG 8</td> <td>4.3</td> <td>15 mm</td> </tr> </tbody> </table>	Wire gauge	Ø	Stripping length	1.5 mm ²	AWG 16	1.75	9.5 mm	2.5 mm ²	AWG 14	2.25	9.5 mm	4 mm ²	AWG 12	2.85	9.5 mm	6 mm ²	AWG 10	3.5	9.5 mm	10 mm ²	AWG 8	4.3	15 mm												
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Han E® HMC Crimp contact HMC gold plated for 16 A 	0.14-0.37 0.5 0.75 1 1.5 2.5 4	09 33 200 6117 09 33 200 6122 09 33 200 6115 09 33 200 6118 09 33 200 6116 09 33 200 6123 09 33 200 6119	09 33 200 6217 09 33 200 6222 09 33 200 6215 09 33 200 6218 09 33 200 6216 09 33 200 6223 09 33 200 6221		<table border="1"> <thead> <tr> <th>Identifica-tion</th> <th>Wire gauge</th> <th>Stripping length</th> </tr> </thead> <tbody> <tr> <td>no groove</td> <td>0.14-0.37 mm²</td> <td>AWG 26-22</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>0.5 mm²</td> <td>AWG 20</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove*</td> <td>0.75 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>1 groove</td> <td>1 mm²</td> <td>AWG 18</td> <td>7.5 mm</td> </tr> <tr> <td>2 groove</td> <td>1.5 mm²</td> <td>AWG 16</td> <td>7.5 mm</td> </tr> <tr> <td>3 groove</td> <td>2.5 mm²</td> <td>AWG 14</td> <td>7.5 mm</td> </tr> <tr> <td>wide groove</td> <td>3 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> <tr> <td>no groove</td> <td>4 mm²</td> <td>AWG 12</td> <td>7.5 mm</td> </tr> </tbody> </table> <p>* on the rear crimp collar</p>	Identifica-tion	Wire gauge	Stripping length	no groove	0.14-0.37 mm ²	AWG 26-22	7.5 mm	no groove	0.5 mm ²	AWG 20	7.5 mm	1 groove*	0.75 mm ²	AWG 18	7.5 mm	1 groove	1 mm ²	AWG 18	7.5 mm	2 groove	1.5 mm ²	AWG 16	7.5 mm	3 groove	2.5 mm ²	AWG 14	7.5 mm	wide groove	3 mm ²	AWG 12	7.5 mm	no groove	4 mm ²	AWG 12	7.5 mm
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