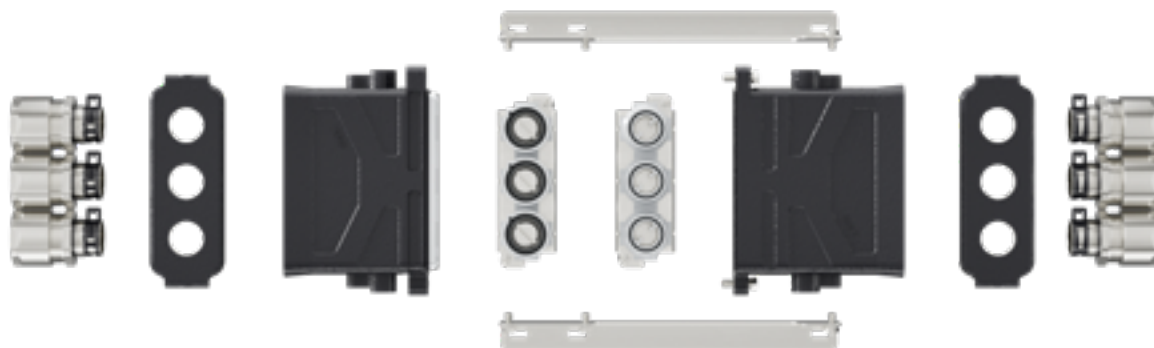


Rail transportation industry EC series



Rail transportation industry EC series

Technical characteristics

Specifications	DIN EN 60 664	DIN EN 61 984
Approvals		
Inserts		
Number of contacts	3	4
without adapter		
-Rated current	650A	250A
-Rated voltage	2000V	2000V
-Rated impulse voltage	12kV	12kV
-Pollution degree	3	
Insulation resistance	$\geq 10^{10}\Omega$	
Material	polyamide	
Limiting temperatures	-40°C ...+125°C	
Flammability acc. to UL 94	V0	
Mechanical working life(mating cycles)	≥ 500	
Contacts		
Material	copper alloy	
Surface	hard-silver plated	
Contact resistance	$\leq 0.3m\Omega$	
Crimp terminal		
-mm ²	240mm ²	35-70mm ²
Crimp dies	acc. to DIN 46 235	
Pressing force requirement	130kN	
Frame		
Material	stainless steel	
M4 Fixing screws	1.5N · m	
M6 Fixing screws	4N · m	

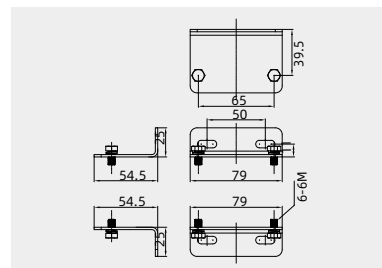
Specifications	DIN EN 60 664	DIN EN 61 984
Approvals		
Inserts		
Number of contacts	3	4
without adapter		
-Rated current	350A	350A
-Rated voltage	2000V	2000V
-Rated impulse voltage	12kV	12kV
-Pollution degree	3	
Insulation resistance	$\geq 10^{10}\Omega$	
Material polyamide	polyamide	
Limiting temperatures	-40°C ...+125°C	
Flammability acc. to UL 94 V0	V0	
Mechanical working life(mating cycles)	≥ 500	
Contacts		
Material	copper alloy	
Surface	hard-silver plated	
Contact resistance	$\leq 0.3m\Omega$	
Crimp terminal		
-mm ²	35 - 120 mm ²	
Crimp dies	acc. to DIN 46 235	
Pressing force	130 kN	
Frame		
Material	stainless steel	
M4 Fixing screws	1.5N · m	
M6 Fixing screws	4N · m	

EC

Degree of protection: IP68/IP69K

Remark: SPQ is 1pc

Mounting bracket		
	Connect way	Designation
		HP/EC-MP/S
		Order No.
		113 024 090 1501



Rail transportation industry EC

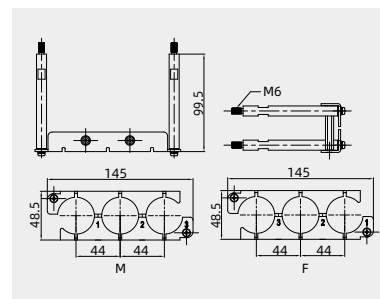
Frame

Remark: SPQ is 1pc

3pins HC650



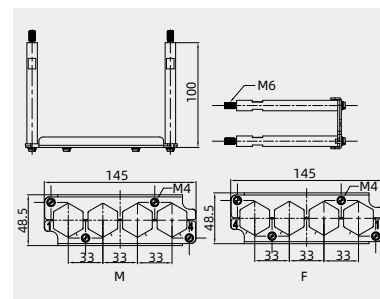
Describe	Designation	Order No.
Male	HF24B-003R/EC-M	113 024 930 1503
Female	HF24B-003R/EC-F	113 024 930 1500



4pins HC350



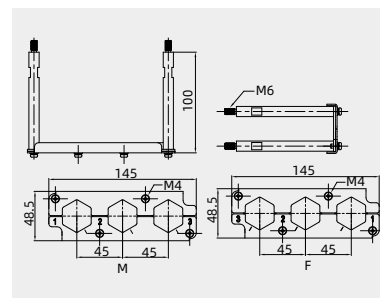
Describe	Designation	Order No.
Male	HF24B-004C/EC-M	113 024 930 1501
Female	HF24B-004C/EC-F	113 024 930 1502



3pins HC350



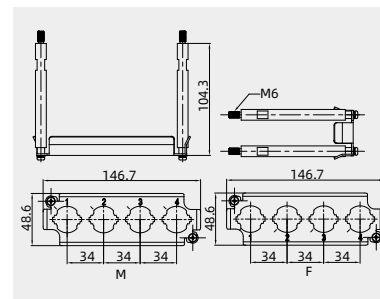
Describe	Designation	Order No.
Male	HF24B-003C/EC-M	131 024 000 1502
Female	HF24B-003C/EC-F	131 024 000 1503



4pins HC250



Describe	Designation	Order No.
Male	HF24B-004A/EC-M	131 024 000 1500
Female	HF24B-004A/EC-F	131 024 000 1501



EC

Rail transportation industry EC

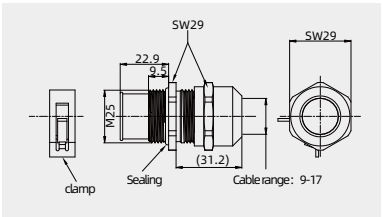
Degree of protection: IP68 (In the case of O-rings)

Cable gland

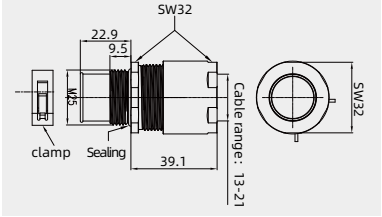
Remark: SPQ is 1pc



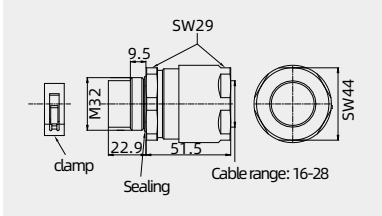
Thread	Designation	Order No.
M25	WNAC/EC-M25(D9-17)	102 117 028 1500



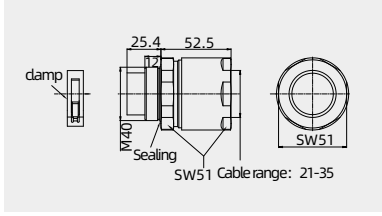
Thread	Designation	Order No.
M25	WNAC/EC-M25(D13-21)	102 117 028 1501



Thread	Designation	Order No.
M32	WNAC/EC-M32(D16-28)	102 117 029 1502



Thread	Designation	Order No.
M40	WNAC/EC-M40(D21-35)	102 117 030 1502



EC

HC-250 Heavy-current inserts

2000V 250A



Inserts

Remark: SPQ is 1pc

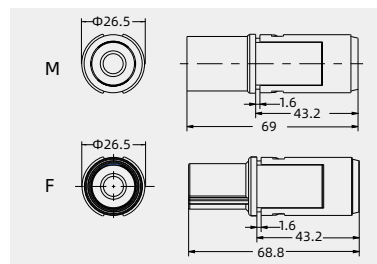
Hoods/Housings: size Pressure tight hoods/housings, please find the details on page 12-08~12-09.

Crimp terminal

Order crimp contacts separately



Insert	Designation	Order No.
Male	HC250-MC	131 001 010 0001
Female	HC250-FC	131 001 020 0001



Crimp contacts

Crimp contacts 250A

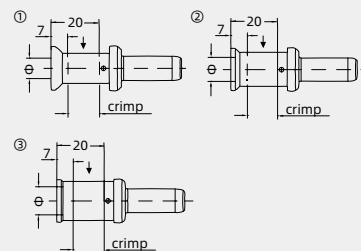
Silver plated

Remark: SPQ is 1pc

NO.	Male	Order No.	Female	Order No.
①	CHSM250-35	101 028 110 1701	CHSF250-35G	101 028 120 1703
②	CHSM250-50	101 028 110 1801	CHSF250-50G	101 028 120 1803
③	CHSM250-70	101 028 110 1901	CHSF250-70G	101 028 120 1903



For stranded wire acc. to IEC 60 228-5
Crimp zone acc. to DIN 46 235



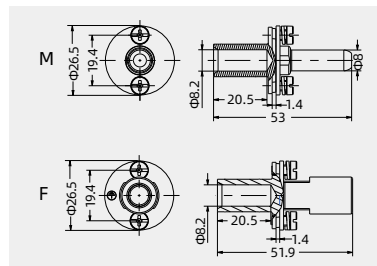
NO.	Wire gauge	Φ	Stripping length
①	35 mm ²	8.45 mm	22 mm
②	50 mm ²	10.25 mm	22 mm
③	70 mm ²	11.75 mm	22 mm

PE crimp contacts 250A

Silver plated



Male	Order No.	Female	Order No.
CHSM250PE-35	101 028 110 1704	CHSF250PE-35	101 028 120 1704



Tools

Manual hydraulic clamp



Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HC-350 Heavy-current inserts

2000/4000V 350A



Inserts

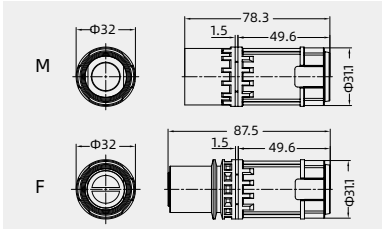
Hoods/Housings: size Pressure tight hoods/housings, please find the details on page 12-12~12-19.

Crimp terminal
Order crimp contacts separately



Remark: SPQ is 1pc

Insert	Designation	Order No.
Male	HC350-MC	131 001 010 0101
Female	HC350-FC	131 001 020 0101



Crimp contacts

Crimp contacts 350A

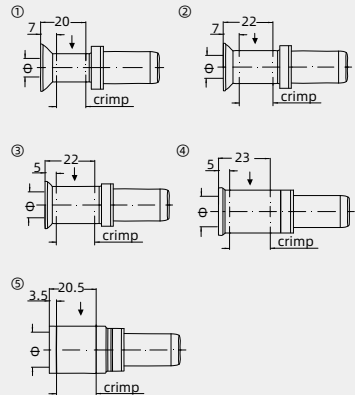
Silver plated



Remark: SPQ is 1pc

NO.	Male	Order No.	Female	Order No.
①	CHSM350-35	101 029 110 1701	CHSF350-35G	101 029 120 1703
②	CHSM350-50	101 029 110 1801	CHSF350-50G	101 029 120 1803
③	CHSM350-70	101 029 110 1901	CHSF350-70G	101 029 120 1903
④	CHSM350-95	101 029 110 2001	CHSF350-95G	101 029 120 2003
⑤	CHSM350-120	101 029 110 2101	CHSF350-120G	101 029 120 2103

For stranded wire acc. to IEC 60 228-5
Crimp zone acc. to DIN 46 235



Tools

Manual hydraulic clamp



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

NO.	Wire gauge	Φ	Stripping length
①	35 mm ²	8.2 mm	26 mm
②	50 mm ²	10.0mm	28 mm
③	70 mm ²	11.5 mm	28 mm
④	95 mm ²	13.5 mm	30 mm
⑤	120 mm ²	15.5 mm	24 mm

Hexagonal adapter[optional]

metal version
with O-Ring



Describe	Designation	Order No.
for 350 Hoods/Housings	WNSC-M25M25/APT	102 103 018 1001
	WNSC-M32M32/APT	102 103 019 1001

	WNSC-M25M25/APT	WNSC-M32M32/APT
Thread(LG)	M25x1.5	M32x1.5
Thread(AG)	M25x1.5	M32x1.5
length of thread(L1)	13.5	16.5
length of thread(L2)	5.5	5.5
Wrench Size(SW)	30	40

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.

HC-650 Heavy-current inserts

4000V 650A

Inserts

Hoods/Housings: size Pressure tight hoods/housings, please find the details on page 12-24~12-26.

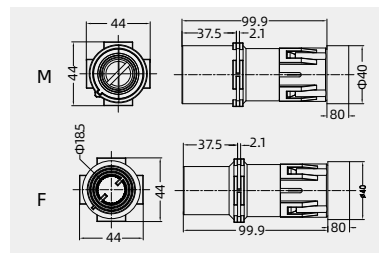
Crimp terminal

Order crimp contacts separately



Remark: SPQ is 1pc

Insert	Designation	Order No.
Male	HC650-MC	131 001 010 0201
Female	HC650-FC	131 001 020 0201



Crimp contacts 650A (with crown spring), for HC650 inserts.

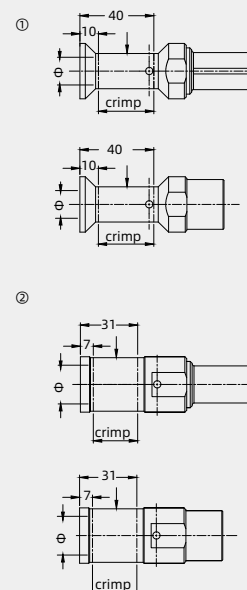
Contact resistance $\leq 0.3\text{m}\Omega$

silverplated



Remark: SPQ is 1pc

NO.	Male	Order No.	Female	Order No.
①	CHSM650-95	101 030 110 2002	CHSF650-95G	101 030 120 2002
①	CHSM650-120	101 030 110 2101	CHSF650-120G	101 030 120 2101
①	CHSM650-150	101 030 110 2202	CHSF650-150G	101 030 120 2202
②	CHSM650-185	101 030 110 2301	CHSF650-185G	101 030 120 2303
②	CHSM650-240	101 030 110 2401	CHSF650-240G	101 030 120 2403

For stranded wire acc. to IEC 60 228-5
Crimp zone acc. to DIN 46 235

Tools

Manual hydraulic clamp



Remark: SPQ is 1pc

Wire gauge	Designation	Order No.
10-240mm ²	TL05	198 001 001 0005

NO.	Wire gauge	Φ	Stripping length
①	95 mm ²	13.5 mm	42 mm
	120 mm ²	15.5 mm	42 mm
	150 mm ²	17 mm	42 mm
②	185 mm ²	19.4 mm	46 mm
	240 mm ²	22.5 mm	46 mm

Notes: The tools for crimp terminal may influence the product quality and stability. Please select the tools recognized by our company.