

C 148 U Technical Data

General Characteristics	Standard	Value
No. of contacts		3 + 3 + PE
Termination		crimp
Wire size power contacts		1.5 - 10 mm ² ; 16 - 8 AWG
Wire size signal contacts		0.5 - 1.5 mm ² ; 20 - 16 AWG
Coupling		Locking levers
Flammability	UL 94	V-0

Electrical Characteristics

Rated voltage	IEC 60 664-1	630 V AC/DC (500 V AC/DC signal contacts)
Rated impulse voltage	IEC 60 664-1	6.0 KV
Material group	IEC 60 664-1	II
Contact resistance	IEC 60 512-2, Test 2 a	≤ 3 mΩ (≤ 5 mΩ signal contacts)
Insulation resistance	IEC 60 512-2, Test 3 a	≥ 10 ⁸ Ω
Current carrying capacity (power contacts)	IEC 60 512-3, Test 5 b	approx. 60 A (see derating curves)
Current carrying capacity (signal contacts)	IEC 60 512-3, Test 5 b	5 A

Climatic Conditions

Climatic Conditions	Contact Inserts	Housing
Climatic category	IEC 60 068-1	25 / 125 / 21
Lower temperature limit	IEC 60 512-6, Test 11 j	-25 °C / 16 h
Upper temperature limit	IEC 60 512-6, Test 11 i	+125 °C / 1000 h

Mechanical Characteristics

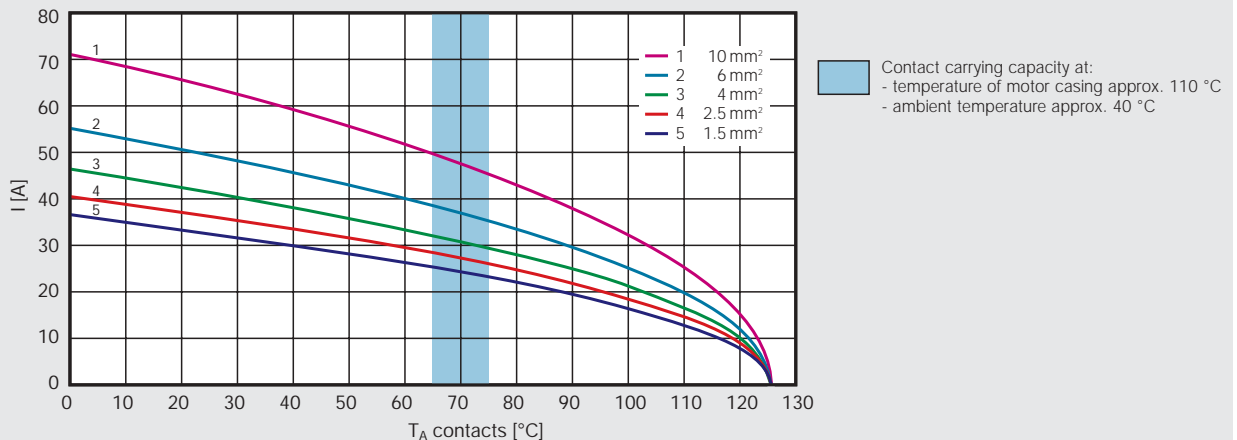
Insertion and withdrawn forces	IEC 60 512-7, Test 13 b	≤ 30 N
Mechanical life cycle	IEC 60 512-5, Test 9 a	≥ 100 mating cycles
Locking force	IEC 60 512-7, Test 13 a	≤ 150 N
Protection class	IEC 60 529	IP 65 / IP 67

Materials

Contact insert	PA 6.6
Contacts	Cu-alloy
Contact plating	Ag
Housing	Zn die cast
Housing plating	Ni

Technical data refer to connectors in mated and locked condition.

C 148 U Derating curves power contacts



C 148 U Turned Crimp Contacts

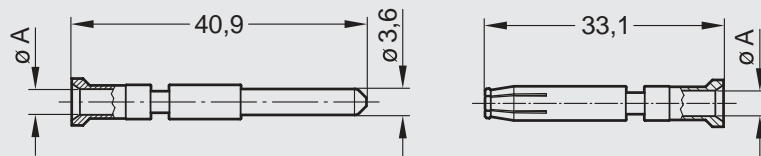


Turned crimp contacts
for \varnothing 3.6 mm

Description	Wire size in mm ²	AWG	A in mm	Quantity	Part No.
Male contact	1.5	16	1.75	100	VN 01 036 0008 (1)
	2.5	14	2.25	100	VN 01 036 0009 (1)
	4	12	2.85	100	VN 01 036 0010 (1)
	6	10	3.5	100	VN 01 036 0011 (1)
	10	8	4.4	100	VN 01 036 0014 (1)
Female contact	1.5	16	1.75	100	VN 02 036 0007 (1)
	2.5	14	2.25	100	VN 02 036 0008 (1)
	4	12	2.85	100	VN 02 036 0009 (1)
	6	10	3.5	100	VN 02 036 0010 (1)
	10	8	4.4	100	VN 02 036 0013 (1)

Crimping tools

4-Ident hand crimping tool	TB 0002
Contact locator	TB 0000 146 0007
Calibration pin set	TP 0000 146 1200



C 148 U Stamped Crimp Contacts



Description	Wire size in mm ²	Supplied as	Quantity	Part No. Contacts	Crimping tool	Part No. Crimping tools
Male contact	0.5 - 1.5 20 - 16 AWG	single contact	100	VN 01 016 0002 (1)	Hand crimping tool	TA 0000
		single contact	200	ZN 01 016 0002 (1)	Crimping dies	TA 0000 163
		contacts on reel	2000	HN 01 016 0002 (1)	Contact locator	TA 0002 146 0001
Female contact	0.5 - 1.5 20 - 16 AWG	single contact	100	VN 02 016 0002 (1)	Hand crimping tool	FA 0000 110
		single contact	200	ZN 02 016 0002 (1)	Crimping dies	FA 0000 163
		contacts on reel	2000	HN 02 016 0002 (1)	Semi automated crimping tool upon request	

Stamped crimp contacts

for \varnothing 1.6 mm

Removal tool for all stamped crimp contacts	FG 0300 146 1
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