



LEONI weld-connex

Adjustable Primary Connector

Our LEONI weld-connex primary connectors are used particularly in applications such as manual and robot-operated welding guns. They are fitted to connecting cables from the power supply to the welding transformer.

Our LEONI weld-connex connectors feature compact dimensions, easy fitting and a high degree of efficiency.

Benefits

- Customer and service-friendly assembly without the use of special tools
- Option of switching from a straight to a bent cable outlet without removing connectors
- All parts available separately thanks to modular connector construction
- Primary connector adjustable in 8 positions
- Also adjustable while fitted thanks to the spring clip system
- Leading PE-contact by means of simple positioning
- Connector compatibility with usual primary connectors
- Low connecting forces
- Extremely large number of repeat connections possible
- High contact reliability thanks to lamella sockets
- Pilot contacts optional
- Hexagonal coding optional

LEONI

Technical specifications and order no. for complete connector

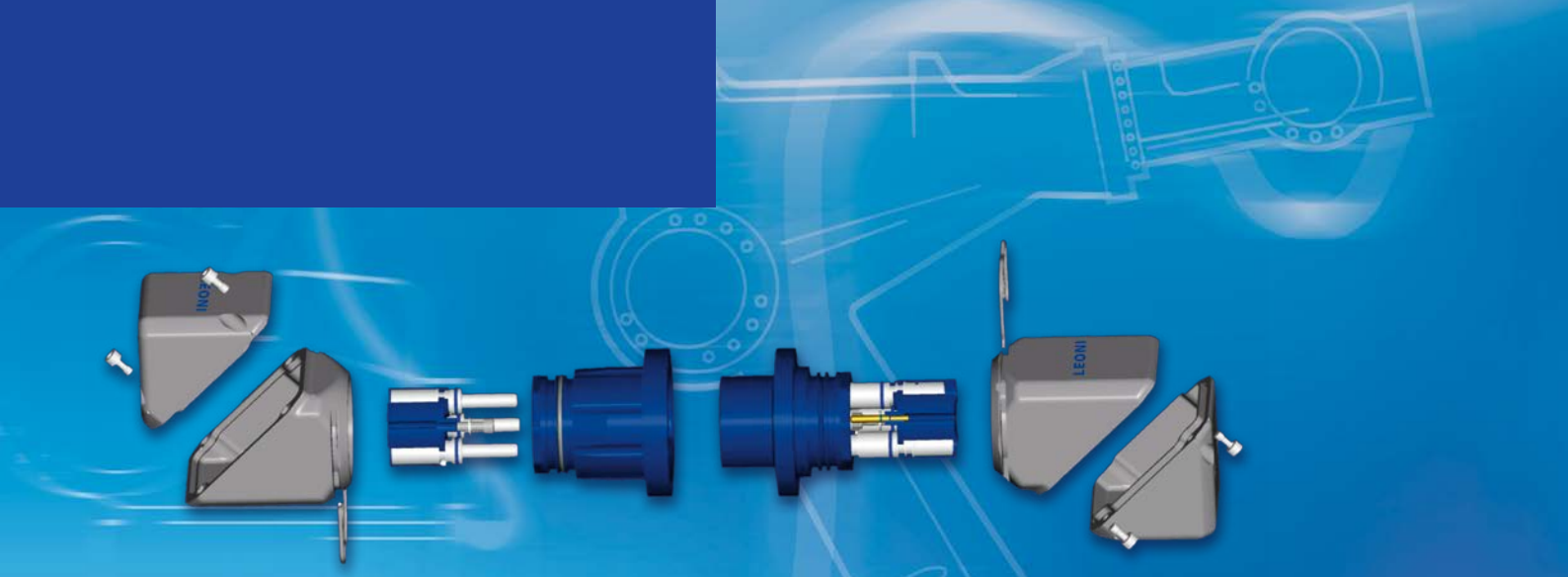
Type	WCM 135 A (male)				WCF 135 A (female)			
Part No.	NWCM 13506	NWCM 13510	NWCM 13516	NWCM 13525	NWCF 13506	NWCF 13510	NWCF 13516	NWCF 13525
Conductor cross-section	3 x 6 mm ²	3 x 10 mm ²	3 x 16 mm ²	3 x 25 mm ²	3 x 6 mm ²	3 x 10 mm ²	3 x 16 mm ²	3 x 25 mm ²
Number of poles	2 + PE + 2 Pilots				2 + PE + 2 Pilots			
Operating frequency	50–60 Hz				50–60 Hz			
Termination	Crimpcontact				Crimpcontact			
Termination cross-section	2 + PE = 6–25 mm ² ; Pilot = 1,5 mm ²				2 + PE = 6–25 mm ² ; Pilot = 1,5 mm ²			
Contact diameter	2 + PE = 6 mm; Pilot = 2 mm				2 + PE = 6 mm; Pilot = 2 mm			
Marking	135 A/800 V/6KV/3				135 A/800 V/6KV/3			
Protection class	Insulating body: IP 67 longitudinally waterproof against cable loom Housing: IP 56/IP 67 according to construction				Insulating body: IP 67 longitudinally waterproof against cable loom Housing: IP 56/IP 67 according to construction			
Operating current A	up to 55	up to 80	up to 110	up to 135	up to 55	up to 80	up to 110	up to 135
Material	Insulating body: PBT (blue) Housing: PBT (grey) Contacts: copper alloy, surface Ag				Insulating body: PBT (blue) Housing: PBT (grey) Contacts: copper alloy, surface Ag			
Operating temperature	–40 °C up to + 140 °C				–40 °C up to +140 °C			
Standards	Insulating body: UL 94-V0 Housing: UL 94-V0				Insulating body: UL 94-V0 Housing: UL 94-V0			

Type	WCM 180 A (male)				WCF 180 A (female)			
Part No.	NWCM 18016	NWCM 18025	NWCM 18035	NWCM 18050	NWCF 18016	NWCF 18025	NWCF 18035	NWCF 18050
Conductor cross-section	3 x 16 mm ²	3 x 25 mm ²	3 x 35 mm ²	3 x 50 mm ²	3 x 16 mm ²	3 x 25 mm ²	3 x 35 mm ²	3 x 50 mm ²
Number of poles	2 + PE + 2 Pilots				2 + PE + 2 Pilots			
Operating frequency	50–60 Hz				50–60 Hz			
Termination	Crimpcontact				Crimpcontact			
Termination cross-section	2 + PE = 16–50mm ² ; Pilot = 1,5 mm ²				2 + PE = 16–50 mm ² ; Pilot = 1,5 mm ²			
Contact diameter	2 + PE = 8 mm; Pilot = 2 mm				2 + PE = 8 mm; Pilot = 2 mm			
Marking	180 A/800 V/6KV/3				180 A/800 V/6KV/3			
Protection class	Insulating body: IP 67 longitudinally waterproof against cable loom Housing: IP 56/IP 67 according to construction				Insulating body: IP 67 longitudinally waterproof against cable loom Housing: IP 56/IP 67 according to construction			
Operating current A	up to 110	up to 135	up to 150	up to 180	up to 110	up to 135	up to 150	up to 180
Material	Insulating body: PBT (blue) Housing: PBT (grey) Contacts: copper alloy, surface Ag				Insulating body: PBT (blue) Housing: PBT (grey) Contacts: copper alloy, surface Ag			
Operating temperature	–40 °C up to +140 °C				–40 °C up to +140 °C			
Standards	Insulating body: UL 94-V0 Housing: UL 94-V0				Insulating body: UL 94-V0 Housing: UL 94-V0			

Please note: Screwed cable glands should be ordered separately

Factory Automation

www.leoni-factory-automation.com



Current carrying capacity

The current carrying capacity of connectors is determined pursuant to the DIN IEC 60 512 Section 3 and shows the natural heating (dissipation loss at the volume resistance relative to the ambient temperature) at different currents. This is limited by the thermal properties of contacts and insulation materials.

The curves represent currents that can be fed simultaneously and constantly (not intermittently) through all contacts without exceeding the maximum permissible temperature.

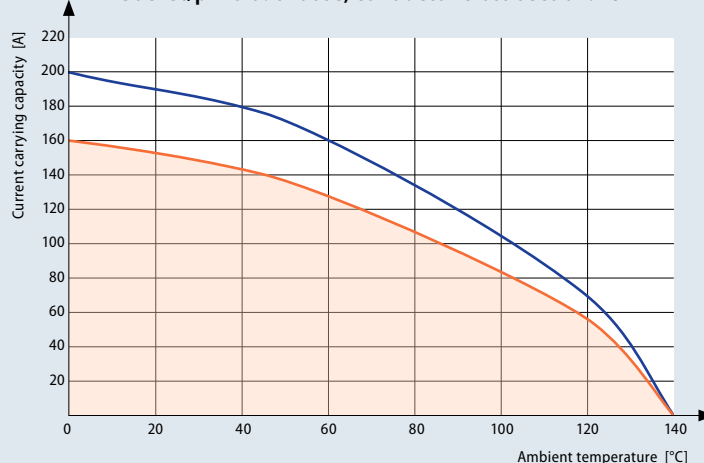
The corrected derating curves shown result from additional external factors such as connectable wire cross sections or uneven current distribution.

Notes pertaining to the diagrams

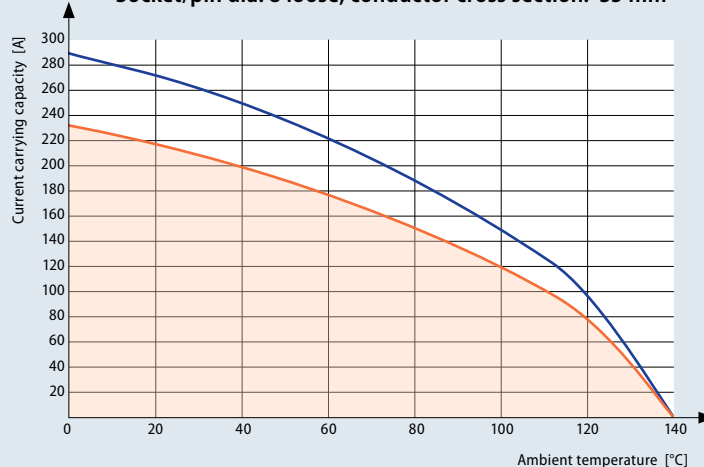
Maximum temperature permitted by materials used: 140 °C
 Temperature measuring point on the lamella.
 Lamella sockets and pin silver-plated.

- Base curve
- Corrected curve
- Permitted operating range

Socket/pin dia. 6 loose, conductor cross section: 25 mm²



Socket/pin dia. 8 loose, conductor cross section: 35 mm²



Spare Parts

	135 A Part No.	180 A Part No.
Connector complete without contacts with dummy plugs (female)	NWCF 135	NWCF 180
Connector complete without contacts with dummy plugs (male)	NWCM 135	NWCM 180
Insulation box with dummy plugs (female)	NWCIBF 135	NWCIBF 180
Insert with dummy plugs (female)	NWCIBIF 135	NWCIBIF 180
Contacts (female)	NWCCF606 (6 mm ²)	NWCCF816 (16 mm ²)
	NWCCF610 (10 mm ²)	NWCCF825 (25 mm ²)
	NWCCF616 (16 mm ²)	NWCCF835 (35 mm ²)
	NWCCF625 (25 mm ²)	NWCCF850 (50 mm ²)
Pilot contact (male)	NWCCPM	NWCCPM
Insulation box with dummy plugs (male)	NWCIBM 135	NWCIBM 180
Insert with dummy plugs (male)	NWCIBIM 135	NWCIBIM 180
Contacts (male)	NWCCM606 (6 mm ²)	NWCCM816 (16 mm ²)
	NWCCM610 (10 mm ²)	NWCCM825 (25 mm ²)
	NWCCM616 (16 mm ²)	NWCCM835 (35 mm ²)
	NWCCM625 (25 mm ²)	NWCCM850 (50 mm ²)
Pilot contact (female)	NWCCPF	NWCCPF
Housing	NWCH 135	NWCH 180
Springclip	NWCHS 135	NWCHS 180
Dummy plug	NWCDP	NWCDP
Hexagonal code	NWCHC 135	NWCHC 180

Screwed cable gland (clamping range in [mm])

M32 → M25 (11–16)	e.g. for 3 x 6 mm ²	NM3225K	
M32 (15–21)	e.g. for 3 x 10 mm ²	NM32K	
M32 (15–21)	e.g. for 3 x 16 mm ²	NM32K	
M32 (24–28)	e.g. for 3 x 25 mm ²	NM32x1,5K24-28K	
M40 (19–28)	e.g. for 3 x 16 mm ²		NM40K
M40 (19–28)	e.g. for 3 x 25 mm ²		NM40K
M40 (19–28)	e.g. for 3 x 35 mm ²		NM40K
M40 (27–32)	e.g. for 3 x 50 mm ²		NM40x1,5K27-32K
M40 (32–36)	e.g. for 3 x 35 mm ² TPC		NM40x1,5K32-36K

Screwed cable gland in PG version is available on request.

Unless otherwise agreed our general conditions of sale and delivery shall apply.