

M58 Power

Plug-in connector RLS

DOK-CONNEC-RLS58XX****-DA01-EN-P

R911424873
Edition 01

1 RLS58x1 Technical data

Technical data



Designation	Symbol	Unit	RLS5801/ CM02	RLS5801/ CM03	RLS5811/ CM04	RLS5811/ CM06	RLS5821/ CM10	RLS5831/ CM16	RLS5831/ CM25	RLS5831/ CM35
Material number (accessory)			R911384001	R911383989	R911383990	R911383991	R911383992	R911383993	R911383994	R911394616
Type			Cable connector							
Connector size			M58							
Mode of locking			Screw thread							
Cable type			REL0106	REL0107	REL0108	REL0109	REL0110	REL0111	REL0112	REL0113
Clamping range ØA	D	mm	9.0 ... 16.0		13.0 ... 20.0		18.0 ... 25.0		22.0 ... 32.0	
Coding			Bosch specific pole pattern							
Number of poles plug-in connectors			3+PE+5							
Contacts (amount and size)			4x (1.5 ... 2.5) + 5x (0.75 ... 1.5)		4x (4.0 ... 6.0) + 5x (0.75 ... 1.5)		4x 10.0 + 5x (0.75 ... 1.5)		4x 16.0 + 5x (0.75 ... 1.5)	
Maximum rated current plug-in connector power ¹⁾			I _{N P}	A	97 A (CSA) 110 A (UL)					
Maximum rated current plug-in connector signal ²⁾			I _{N S}	A	3 A (CSA) 3 A (UL)					
Mass	m	kg	0.500		0.539	0.533	0.541	0.547	0.538	0.542
Contact design			Socket							
Connection design			Crimp							
Rated voltage power contact	U _{N P}	V	700							
Overvoltage category			III							
Temperature range	T _a	°C	-40 ... 125							
Installation altitude	h	m	3000							
Pollution degree			3							
Housing material			Al alloy, nickel-plated							
Contact material			Cu alloy, silvered + passivated							
Mating cycles			500							
Contact carrier material			PBTP							
Sealings			FKM							
Protection mode (locked)			IP67							
UL/CSA Approvals			cURus							
E-file number			E151413							
RoHS (EU)			Compliant with Directive 2011/65/EU							
Identification “B”			None							

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

Latest amendment: 2019-04-11

Table 1: Cable connector

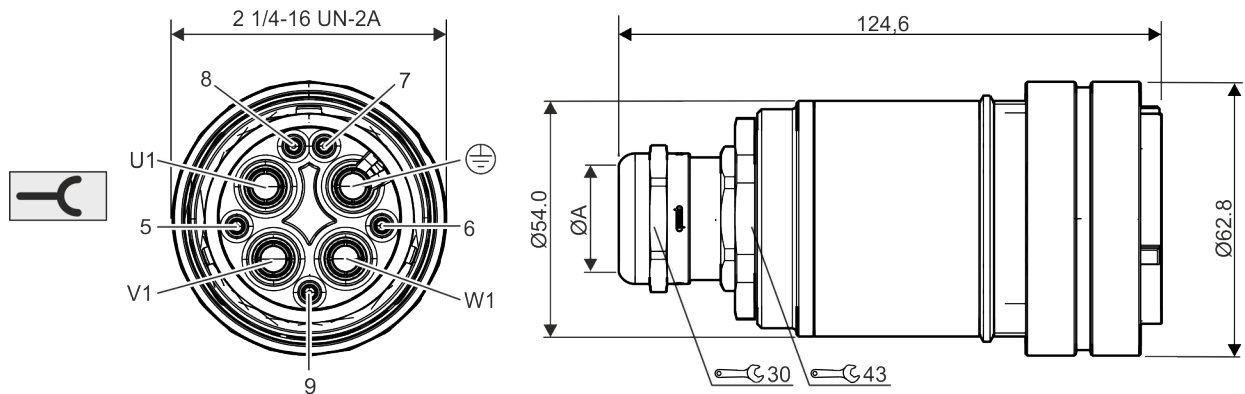


Fig. 1: RLS5801/CM02, RLS5801/CM03

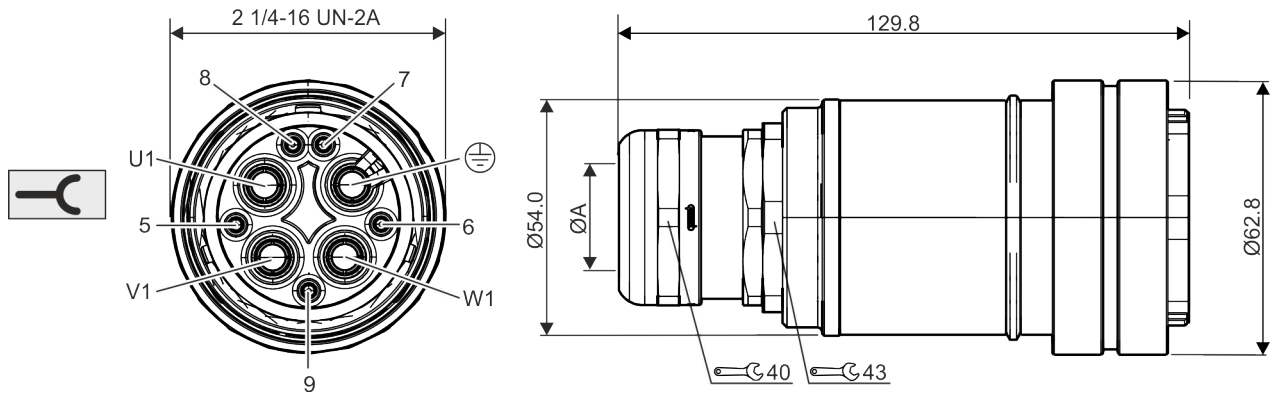


Fig. 2: RLS5811/CM04, RLS5811/CM06, RLS5821/CM10

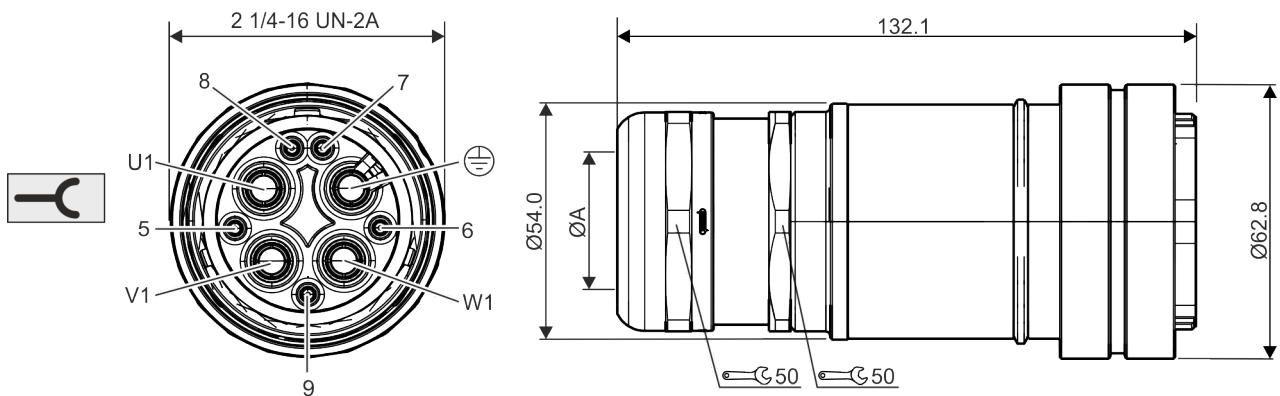


Fig. 3: RLS5831/CM16, RLS5831/CM25

ØA Clamping range / cable diameter see "Technical data"

2 RLS58x2 Technical data

Technical data



Designation	Symbol	Unit	RLS5802/ CM02	RLS5802/ CM03	RLS5812/ CM04	RLS5812/ CM06	RLS5822/ CM10	RLS5832/ CM16	RLS5832/ CM25
Material number (accessory)			R911383995	R911383996	R911383997	R911383998	R911383999	R911384000	R911384002
Type			Cable coupling						
Connector size			M58						
Mode of locking			Screw thread						
Cable type			REL0106	REL0107	REL0108	REL0109	REL0110	REL0111	REL0112
Clamping range ØA	D	mm	9.0 ... 16.0		13.0 ... 20.0		18.0 ... 25.0		22.0 ... 32.0
Coding			Bosch specific pole pattern						
Number of poles plug-in connectors			3+PE+5						
Contacts (amount and size)			4x (1.5 ... 2.5) + 5x (0.75 ... 1.5)		4x (4.0 ... 6.0) + 5x (0.75 ... 1.5)		4x 10.0 + 5x (0.75 ... 1.5)	4x 16.0 + 5x (0.75 ... 1.5)	4x 25.0 + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	97 A (CSA) 110 A (UL)						
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	3 A (CSA) 3 A (UL)						
Mass	m	kg	0.498	0.499	0.527	0.528	0.541	0.538	0.527
Contact design			Pin						
Connection design			Crimp						
Rated voltage power contact	U _{N P}	V	700						
Overvoltage category			III						
Temperature range	T _a	°C	-40 ... 125						
Installation altitude	h	m	3000						
Pollution degree			3						
Housing material			Al alloy, nickel-plated						
Contact material			Cu alloy, silvered + passivated						
Mating cycles			500						
Contact carrier material			PBTP						
Sealings			FKM						
Protection mode (locked)			IP67						
UL/CSA Approvals			cURus						
E-file number			E151413						
RoHS (EU)			Compliant with Directive 2011/65/EU						
Identification “B”			None						

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

Latest amendment: 2019-04-15

Table 2: Cable coupling

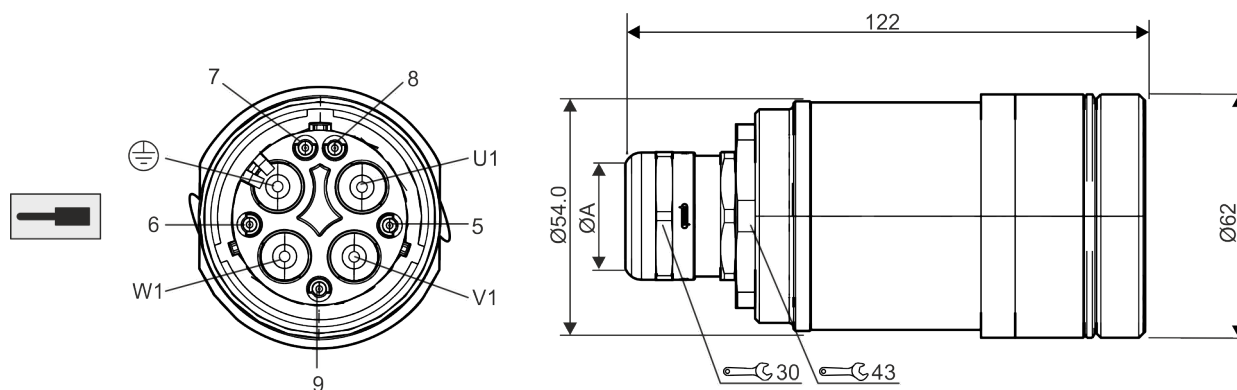


Fig. 4: RLS5802/CM02, RLS5802/CM03

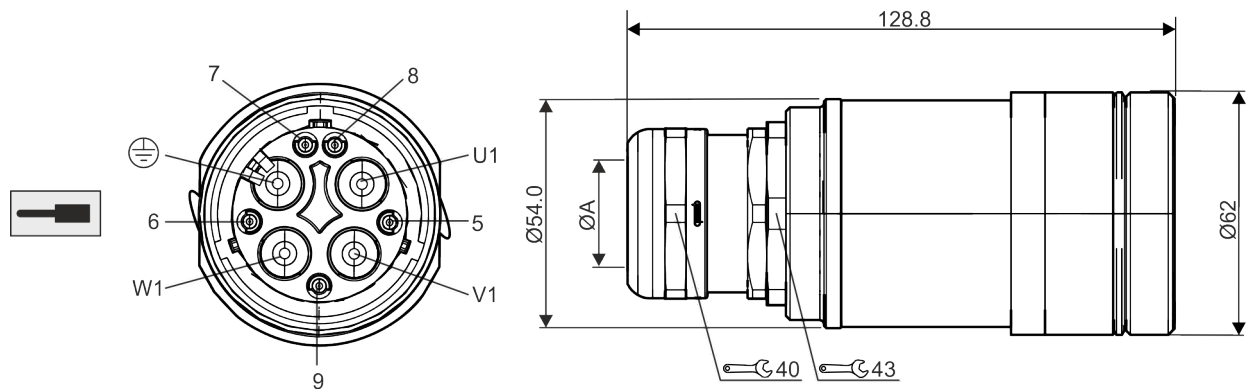


Fig. 5: RLS5812/CM04, RLS5812/CM06, RLS5822/CM10

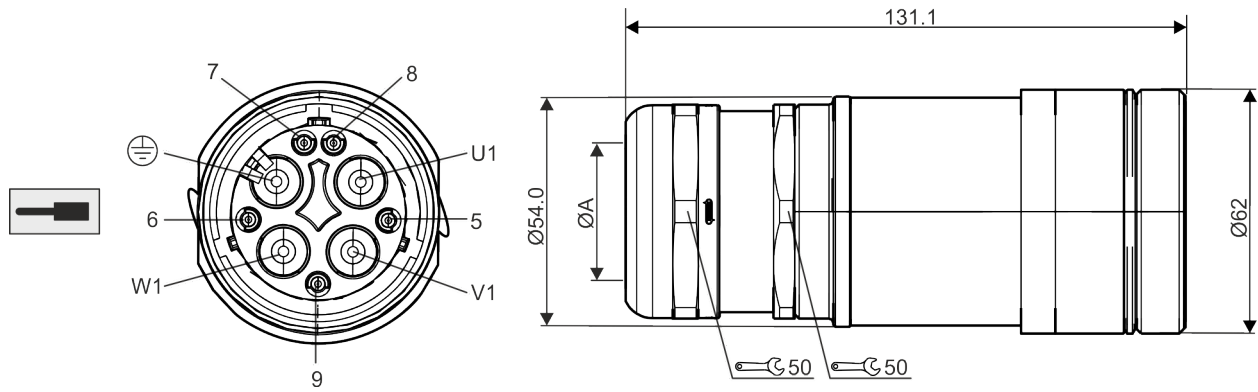


Fig. 6: RLS5832/CM16, RLS5832/CM25

ØA Clamping range / cable diameter see "Technical data"

3 RLS58x3 Technical data

Technical data



Designation	Symbol	Unit	RLS5803/C16	RLS5803/C25
Material number (accessory)			R911389981	R911389982
Type			Flange socket	
Connector size			M58	
Mode of locking			Screw thread	
Cable type			-	
Clamping range ØA	D	mm	-	
Coding			Bosch specific pole pattern	
Number of poles plug-in connectors			3+PE+5	
Contacts (amount and size)			4x 16.0 + 5x (0.75 ... 1.5)	4x 25.0 + 5x (0.75 ... 1.5)
Maximum rated current plug-in connector power ¹⁾	I _{N P}	A	97 A (CSA) 110 A (UL)	
Maximum rated current plug-in connector signal ²⁾	I _{N S}	A	3 A (CSA) 3 A (UL)	
Mass	m	kg	0.345	0.333
Contact design			Pin	
Connection design			Crimp	
Rated voltage power contact	U _{N P}	V	700	
Overvoltage category			III	
Temperature range	T _a	°C	-40 ... 125	
Installation altitude	h	m	3000	
Pollution degree			3	
Housing material			Al alloy, nickel-plated	
Contact material			Cu alloy, silvered + passivated	
Mating cycles			500	
Contact carrier material			PBTP	
Sealings			FKM	
Protection mode (locked)			IP67	
UL/CSA Approvals			cURus	
E-file number			E151413	
RoHS (EU)			Compliant with Directive 2011/65/EU	
Identification "B"			None	

1) 2) Related to the maximum possible contact size within the respective plug-in connector size. Observe reducing factors, like smaller contacts, cable cross-sections, temperature, local regulations.

Latest amendment: 2019-04-17

Table 3: Flange socket

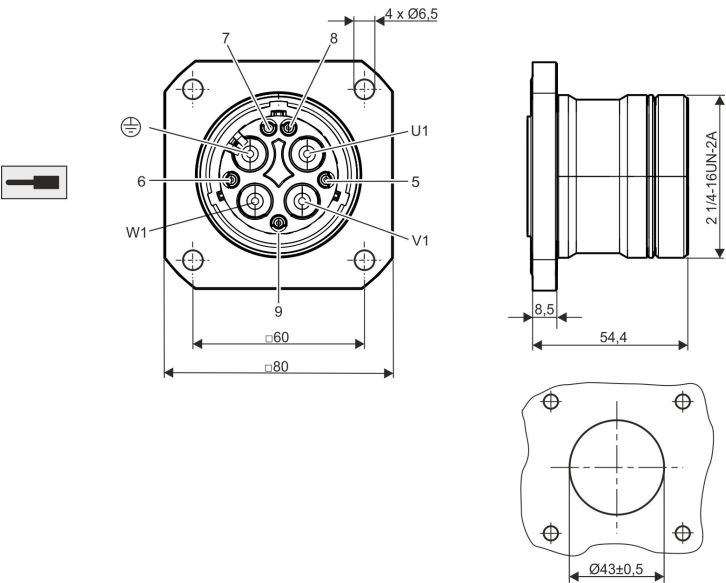


Fig. 7: RLS5803/C16, RLS5803/C25

4 M58 Square mounting flange

Technical data

Designation	Connector accessories
Material number	R911410541
Square mounting flange, 4x Ø4.2 for assembly on	RLS58x1/xxxx
	RLS58x2/xxxx

Table 4: Square mounting flange

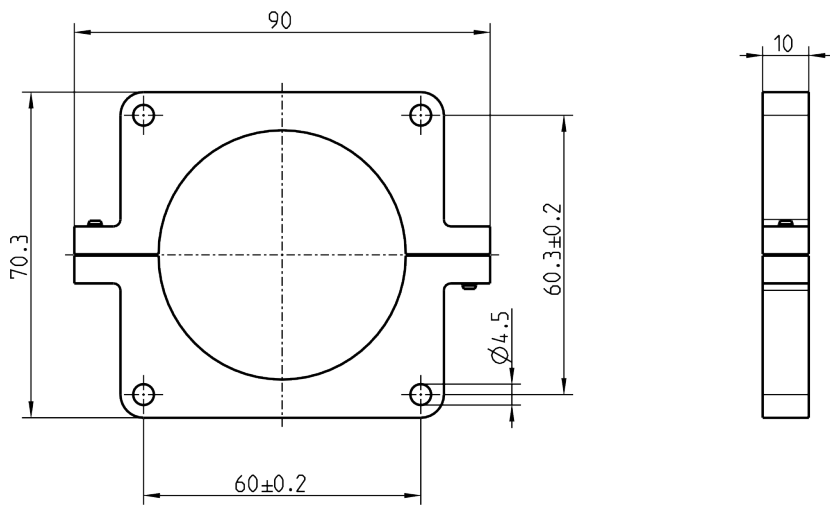


Fig. 8: Square mounting flange M58 (dimensions)

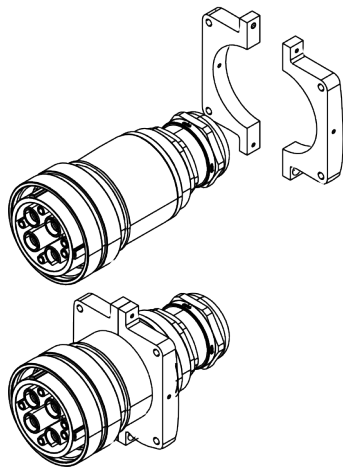


Fig. 9: Assembly square mounting flange