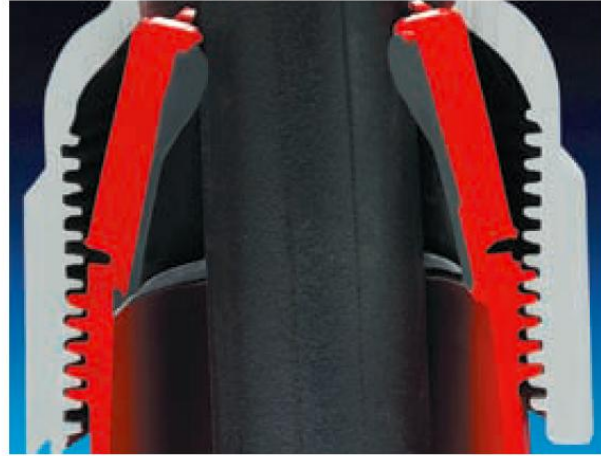


Connectors (Couplers)



- Screwless QUICK-CONNECT cage clamp terminals
- Simple housing connection through pressure screw-thread connection
- Opening and closing by simply turning around 90°
- The tensile strength of the 4-point (quarter turn) locking system is over 2400 N for 16A, and over 4700 N for 32A

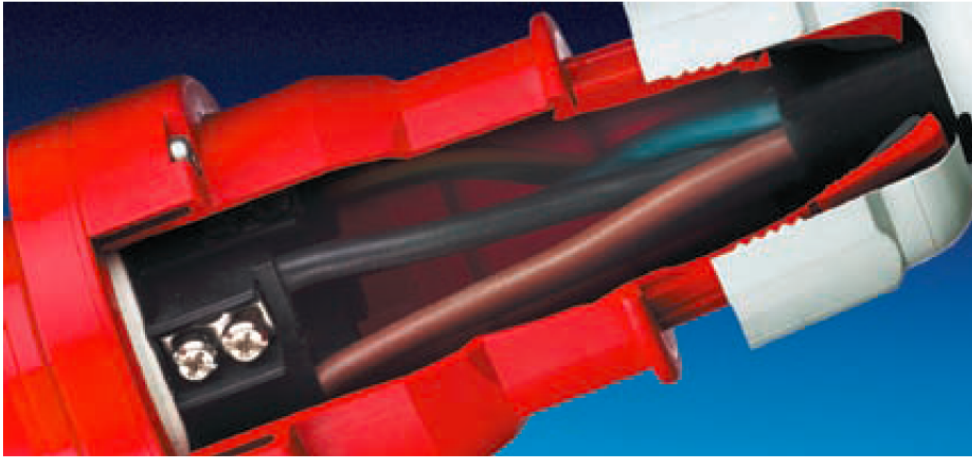


- Multi-Grip cable gland
- Rubber seal, firmly moulded on, facilitates connection
- No additional seals and rings required
- 18 flexible laminae adapt to the cable diameter
- The Multi-Grip screw connection achieves a high tensile strength whilst simultaneously protecting the cable



- QUICK-CONNECT 16A and 32A IP44 connector housings
- Lock engages automatically and securely on closing
- Lock can be opened by turning clockwise with a screwdriver
- QUICK-CONNECT 16A and 32A IP67 connectors have two sealing screws to secure the contact carrier to the housing
- 63A and 125A connectors have screw-together housings

Safe, Robust, Easy to Install



- Generous connection space
- No awkward strain relief, due to Multi-Grip cable gland
- Cage clamp terminals with 16A and 32A (or screw terminals are available)
- Screw / clamp terminals for 63A and 125A
- 16A and 32A short and long cable sleeve connectors on page 54 (non QUICK-CONNECT) are fitted with internal cable grip



- KONTAK-PLUS - very good contact rating results
- Self-cleaning
- Defined contact operation
- Almost unchanging with drawing forces
- Excellent heat dissipation
- High copper content guarantees good current flow



- Fibre glass-reinforced and particularly temperature resistant contact carriers
- Brass-nickel-plated screw / clamp terminals for 63A and 125A
- Cable ferrules are not necessary
- Even contact pressure
- Minimised transition resistance



- QUICK-CONNECT tension spring clamping technology for 16A and 32A (or screw terminals are available)
- Brass-nickel-plated screw / clamp terminals for 63A and 125A
- Accommodation of large cable cross-sections
- Even contact pressure with minimised transition resistance

A	V	Hz		EARTH HR. POS		EARTH HR. POS		EARTH HR. POS
CURRENT	VOLTAGE	FREQUENCY	2P+E		3P+E		3P+N+E	

Connectors

CEE **NORM**

16 	110	50 - 60	31000-TLS	4	31003-TLS	4	31009-TLS	4
	240	50 - 60	31001-TLS	6	31004-TLS	9	31010-TLS	9
	415	50 - 60	31002-TLS	9	31005-TLS	6	303-TLS	6
32 	110	50 - 60	31012-TLS	4	31015-TLS	4	31021-TLS	4
	240	50 - 60	31013-TLS	6	31016-TLS	9	31022-TLS	9
	415	50 - 60	31014-TLS	9	31017-TLS	6	304-TLS	6



Connector with Multi-Grip Cable Gland

- One Piece Body
-  Splashproof

16 	240	50 - 60	330	6				
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16A and 32A with screw terminals



Angled Connector with Short Cable Sleeve

-  Splashproof

63 	110	50 - 60	3108	4	3149	4	3153	4
	240	50 - 60	3104	6	3150	9	3154	9
	415	50 - 60	3109	9	3151	6	3112	6

63A with screw / clamp terminals and pilot contact

Note: This pilot contact should **NOT** be counted as a main 'pin'



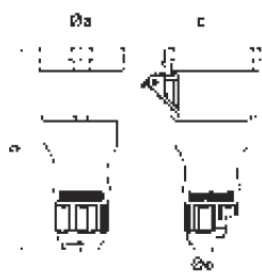
Connector with Multi-Grip Cable Gland

- Screw / clamp terminals
-  Splashproof

All items on this page have screw terminals.
125A is only available in IP67 see page 60.

Dimensions

CEE **NORM**



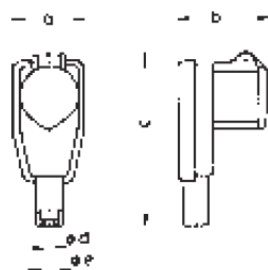
Amperes	16			32		
Poles	3	4	5	3	4	5
Ø a	51	58	65	67	67	73
b	145	148	156	185	185	185
c	74	84	90	94	94	102
Ø e	18	18	18	23	23	23
Conductor mm² min	1	1	1	2.5	2.5	2.5
Conductor mm² max	2.5	2.5	2.5	6	6	6

Connector with Multi-Grip Cable Gland

- Screw terminals



Splashproof



Amperes	16
Poles	3
a	54
b	79
c	139
Ø d	6.5
Ø e	13
Conductor mm² min	1.5
Conductor mm² max	2.5

Angled Connector with Short Cable Sleeve



Splashproof



Amperes	63		
Poles	3	4	5
Ø a	95	95	95
b	263	263	263
c	109	109	109
Ø d	36	36	36
Conductor mm² min	6	6	6
Conductor mm² max	16	16	16

Connector with Multi-Grip Cable Gland

- Multi-Grip cable gland system with moulded-in gasket
- High temperature resistant contact carrier
- Screw / clamp terminals
- Nickel plated contacts



Splashproof

A	V	Hz		EARTH NRL POS		EARTH NRL POS		EARTH NRL POS
CURRENT	VOLTAGE	FREQUENCY	2P+E		3P+E		3P+N+E	

Connectors

CEE **NORM**

16 	110	50 - 60	31298	4	31301	4	31305	4
	240	50 - 60	31240	6	31302	9	31306	9
	415	50 - 60	31299	9	31241	6	31243	6
32 	110	50 - 60	31307	4	31309	4	31313	4
	240	50 - 60	31244	6	31310	9	31314	9
	415	50 - 60	31308	9	31245	6	31247	6



Connector
QUICK-CONNECT[®]
with Multi-Grip
Cable Gland
 Watertight

QUICK-CONNECT[®]

The range of **QUICK-CONNECT** products are shown on pages 42, 60, 92, 102

63 	110	50 - 60	3180	4	3183	4	3187	4
	240	50 - 60	3181	6	3184	9	3188	9
	415	50 - 60	3182	9	3185	6	3124	6



Connector
with Multi-Grip
Cable Gland
 Watertight
Screw / clamp terminals

125 	110	50 - 60	3190	4	3193	4	3197	4
	240	50 - 60	3191	6	3194	9	3198	9
	415	50 - 60	3192	9	3195	6	3199	6

63A and 125A with screw / clamp terminals and pilot contact
Note: This pilot contact should **NOT** be counted as a main 'pin'



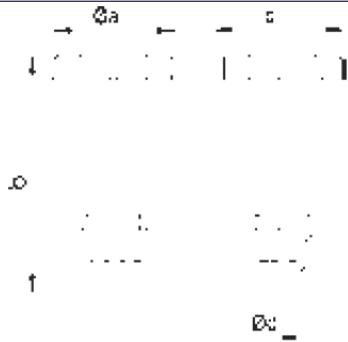
Connector
with Multi-Grip
Cable Gland
 Watertight
Screw / clamp terminals

All items on this page are IP67 watertight



Dimensions

CEE **NORM**



Amperes	16			32		
	3	4	5	3	4	5
Poles						
Ø a	70.5	78	86.5	94	94	101.5
b	161	161	168	196	196	200
c	77	83	93	99	99	107
Ø d	18	18	21	23	23	27
Conductor mm² min	1	1	1	2.5	2.5	2.5
Conductor mm² max	2.5	2.5	2.5	6	6	6

Connector QUICK CONNECT® with Multi-Grip Cable Gland

- Screwless terminals
- Multi-Grip cable gland system with moulded-in gasket
- Nickel-plated contacts
- High temperature resistant contact carrier

IP67 Watertight



Amperes	63		
	3	4	5
Poles			
Ø a	110	110	110
b	263	263	263
c	113	113	113
Ø d	36	36	36
Conductor mm² min	6	6	6
Conductor mm² max	16	16	16

Connector with Multi-Grip Cable Gland

- Multi-Grip cable gland system with moulded-in gasket
- High temperature resistant contact carrier
- Screw / clamp terminals
- Nickel-plated contacts

IP67 Watertight



Amperes	125		
	3	4	5
Poles			
Ø a	125	125	125
b	300	300	300
c	128	128	128
Ø d	50	50	50
Conductor mm² min	16	16	16
Conductor mm² max	50	50	50

Connector with Multi-Grip Cable Gland

- Multi-Grip cable gland system with moulded-in gasket
- High temperature resistant contact carrier
- Screw / clamp terminals
- Nickel-plated contacts

IP67 Watertight