

FrontCom® IP65 service interfaces

Overview

FrontCom® IP65 service interfaces	FrontCom® Vario IP65 service interface	I.2
	FrontCom® Micro IP65 service interface	
	RJ45	I.28
	USB	I.30

Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93
Иваново (4932)77-34-06	Киргизия (996)312-96-26-47	Казахстан (772)734-952-31	Россия (495)268-04-70	

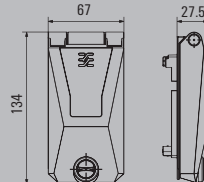
FrontCom® Vario IP65 service interface

FrontCom® Vario

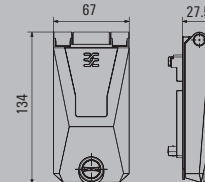
Frame

- IP65
- Single-insert plates can be used

Metal cover



Plastic cover



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals
Note

IP65, in closed state / Type 12
Zinc diecast, powder-coated
Zinc diecast
-40 °C...70 °C
CURUS; GERMLLOYD

IP65, in closed state
Polycarbonate PC
Zinc diecast
-40 °C...70 °C
GERMLLOYD

Ordering data

button operation
Lockable with key
Note

Type	Qty.	Order No.
IE-FC-SFM-KNOB	1	1450530000
IE-FC-SFM-KEY2	1	1450540000

Type	Qty.	Order No.
IE-FC-SFP-KNOB	1	1450510000
IE-FC-SFP-KEY2	1	1450520000

Accessories

Spare key
silver
light grey
white
for touch-safe protection and insert plates
Touch-safe protection
Touch-safe protection

Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

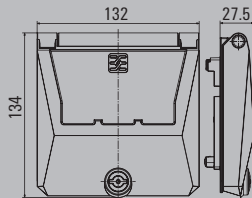
Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Note

FrontCom® Vario
Double frame

- IP65
- Single- and double insert plates can be used

Metal cover



Technical data

Protection degree / Protection class (UL)
Material cover
Material frame
Ambient temperature (operational)
Approvals

Note

IP65, in closed state / Type 12
Zinc diecast, powder-coated
Zinc diecast
-40 °C...70 °C
CURUS

Ordering data

button operation
Lockable with key
Lockable with cabinet key
Lockable with cabinet key (Daimler-Locking)

Note

Type	Qty.	Order No.
IE-FC-DFM-KNOB	1	2003170000
IE-FC-DFM-KEY	1	2003180000
IE-FC-DFM-CAB	1	2003190000
IE-FC-DFM-CAB-DB	1	2003150000

Accessories

Spare key

Markers

silver
light grey
white
for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

Bar (for mounting single insert plates)

Partition

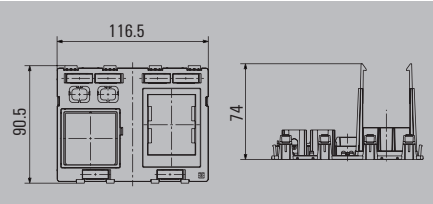
Type	Qty.	Order No.
IE-FC-KEY2	1	2066650000
SM 27/18 K MC NE SI	80	1713760000
SM 27/18 K MC NE GR	80	1073340000
SM 27/18 K MC NE WS	80	1707270000
ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FC-DF-IPH	1	2003340000

Note

FrontCom® Vario
Insert plates for double frames

- IP20

1 x power, 2 x data, 1 x LS switch



Technical data

Material
Insert, data
Insert Power large
Preparation of LS switch (2 pitch)
Insert 2 x Power US + GFCI
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2
1
1
-40 °C...70 °C
CURUS

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-DSP-PWB/2ST/FILS	1	2067080000
IE-FC-DIP-PWB/2ST/FILS	1	2067070000

Accessories

Inserts, Power	
Socket AU 15 A	
Socket AU 10 A	
Socket CH	
Socket CN	
Socket GB	
Socket DE	
Socket DE orange	
Socket FR	
Socket FR orange	
Socket IT/EU	
Socket CZ	
Socket IND	
RCBO	

Inserts, Data	
RJ45 coupling	
RJ45 module EIA/TIA T568 B	
RJ45 module PROFINET	
RJ45 module EIA/TIA T568 A	
USB 2.0 A / A	
USB 3.0 A / A	
USB 2.0 A / B	

Markers
for touch-safe protection and insert plates

Touch-safe protection
Touch-safe protection

Type	Qty.	Order No.
IE-FCI-PWB-AU	1	1450830000
IE-FCI-PWB-AU-10A	10	1546590000
IE-FCI-PWB-CH	1	1450780000
IE-FCI-PWB-CN	1	1450790000
IE-FCI-PWB-GB	1	1450770000
IE-FCI-PWB-DE	1	1450730000
IE-FCI-PWB-DE-OR	1	1554000000
IE-FCI-PWB-FR	1	1450750000
IE-FCI-PWB-FR-OR	1	2007230000
IE-FCI-PWS-IT	1	1450810000
IE-FCI-PWB-CZ	1	2426700000
IE-FCI-PWB-IND	1	2500710000
IE-FCI-PWB-RCBO	1	1534250000

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	Qty.	Order No.
	200	1736181044

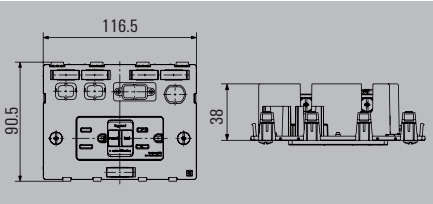
IE-FC-PWPC	Qty.	Order No.
	1	1450820000

Note

FrontCom® Vario
Insert plates for double frames

- IP20

1x GFCI included, 2x data, 1x signal, 1x fuse



Technical data

Material
Insert, data
Insert Power large
Insert fuse
Signal insert D-Sub 9-pole / VGA / HDMI
Preparation of LS switch (2 pitch)
Insert 2 x Power US + GFCI
Ambient temperature (operational)
Approvals

Technical data GFCI insert

Operating voltage / Rated current
GFCI protected US outlet
Self-test
Status indication
Type of connection
Line connection cross-section
finely stranded with wire-end ferrule
finely stranded with wire-end ferrule
Conductor connection cross-section, rigid

Note

Polycarbonate PC
2

1

1

1

-35 °C...66 °C

CURUS

125 V AC / 20 A

2 pieces

automatically every 3 seconds

red LED

Screw connection

1.5 ... 2.5 mm²

1.5 ... 2.5 mm²

1.5 ... 4 mm²

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-DSP-CI/3A/2ST/1D9	1	2004810000
IE-FC-DIP-CI/3A/2ST/1D9	1	2003370000
incl. pre-mounted GFCI		

Accessories

Inserts, Signal

D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection

Fuse inserts

3 A

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

Markers

for touch-safe protection and insert plates

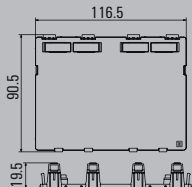
Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-PWCB-3A	1	1543690000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000
ESG 7/20 SIRIUS MC NE WS	200	1736181044

Note

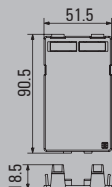
FrontCom® Vario
Insert plates

- IP20

blank double plate



blank single plate



Technical data

Material
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
-40 °C...70 °C
CURUS

Polycarbonate PC
-40 °C...70 °C
CURUS; GERMLLOYD

Ordering data

unshielded

Note

Type	Qty.	Order No.
IE-FC-DIP-BP	1	2004890000

Type	Qty.	Order No.
IE-FC-IP-BP	1	1450710000

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

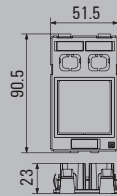
Note

FrontCom® Vario

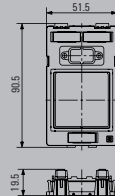
Insert plates

- IP20

1 x power, 2 x data



1x Power, 1x Signal



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2

1

-40 °C...70 °C
CURUS; GERMLOYD

Polycarbonate PC

1

1

-40 °C...70 °C
CURUS

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-SP-PWB/2ST	1	1450550000
IE-FC-IP-PWB/2ST	1	1450630000

Type	Qty.	Order No.
IE-FC-IP-PWB/1D9	1	2003350000

Accessories

Inserts, Signal

D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
VGA coupling
HDMI coupling

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000

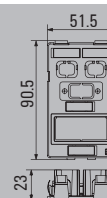
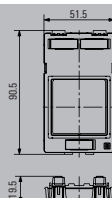
ESG 7/20 SIRIUS MC NE WS	200	1736181044
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Note

An overview of the power inserts can be found in this chapter under power sockets.

An overview of the power inserts can be found in this chapter under power sockets.

- IP20



Note

shielded
unshielded

Note

Inserts, Signal
D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
VGA coupling
HDMI coupling

Inserts, Data

- RJ45 coupling
- RJ45 module EIA/TIA T568 A
- RJ45 module EIA/TIA T568 B
- RJ45 module PROFINET
- USB 2.0 A / A
- USB 3.0 A / A
- USB 2.0 A / B

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

Type	Qty.	Order No.
IE-FC-IP-PWB	1	2548060000

Type	Qty.	Order No.

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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Type	Qty.	Order No.
IE-FC-SP-PWS/2ST/1D9	1	1450600000
IE-FC-IP-PWS/2ST/1D9	1	1450690000

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000
IE-FCI-HD15-FF	1	1556290000
IE-FCI-HDMI-FF	1	2003390000

IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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IE-FC-PWPC	1	1450820000
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Note

An overview of the power inserts can be found in this chapter under power sockets.

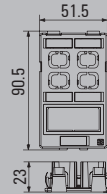
An overview of the power inserts can be found in this chapter under power sockets.

FrontCom® Vario

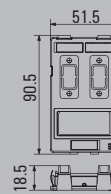
Insert plates

- IP20

1 x power, 4 x data



1 x power, 2 x signal



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
4

1
-40 °C...70 °C
CURUS; GERMLLOYD

Polycarbonate PC
2

1
-40 °C...70 °C
CURUS; GERMLLOYD

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-SP-PWS/4ST	1	1450570000
IE-FC-IP-PWS/4ST	1	1450640000

Type	Qty.	Order No.
IE-FC-SP-PWS/2D9	1	1450610000
IE-FC-IP-PWS/2D9	1	1450680000

Accessories

Inserts, Power

Socket IT/EU

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

Inserts, Signal

D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
VGA coupling
HDMI coupling

Type	Qty.	Order No.
IE-FC-PWS-IT	1	1450810000
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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IE-FC-PWPC	1	1450820000
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Type	Qty.	Order No.
IE-FC-PWS-IT	1	1450810000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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IE-FC-PWPC	1	1450820000
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IE-FC-D9-FF	1	1450840000
IE-FC-D9-FM	1	1450850000
IE-FC-D9-FS	1	1450870000
IE-FC-HD15-FF	1	1556290000
IE-FC-HDMI-FF	1	2003390000

Note

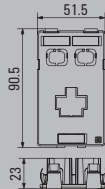
FrontCom® Vario IP65 service interface

FrontCom® Vario

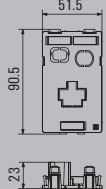
Insert plates

- IP20

1 x power, 2 x data



1 x power, 1 x 3A fuse, 1 x data



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Insert fuse
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2

1
-40 °C...70 °C
CURUS; GERMLLOYD

Polycarbonate PC
1

1
1
-40 °C...70 °C
CURUS

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-SP-PWU/2ST	1	1450620000
IE-FC-IP-PWU/2ST	1	1450700000

For US socket the touch-safe protection is mandatory

Type	Qty.	Order No.
IE-FC-IP-PWU/1ST/CB	1	1543710000

Touch-safe protection is obligatory when using the US socket

Accessories

Inserts, Signal

D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
D-Sub, 25-pole, female/female
D-Sub, 25-pole, female/male
D-Sub, 25-pole, female / solder connection
HDMI coupling
VGA coupling

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

Markers

for touch-safe protection and insert plates

Touch-safe protection

Touch-safe protection

Inserts, Power

US socket

Fuse inserts

3 A

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FC-PWS-US	1	1450800000

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

ESG 7/20 SIRIUS MC NE WS	200	1736181044
IE-FC-PWPC	1	1450820000
IE-FC-PWS-US	1	1450800000
IE-FC-PWCB-3A	1	1543690000

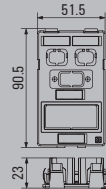
Note

FrontCom® Vario

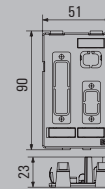
Insert plates

- IP20

2 x data, 2 x signal



1 x data, 2 x signal



Technical data

Material
Insert, data
Signal insert D-Sub 9-pole / VGA / HDMI
Insert, signal, D-Sub, 25-pole
Insert Power large
Insert Power small
Insert Power US
Insert fuse
Ambient temperature (operational)
Approvals

Note

Polycarbonate PC
2
2

-40 °C...70 °C
CURUS; GERMLLOYD

Polycarbonate PC
1
1
1

-40 °C...70 °C
CURUS; GERMLLOYD

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-SP-2ST/2D9	1	1450590000
IE-FC-IP-2ST/2D9	1	1450670000

Type	Qty.	Order No.
IE-FC-SP-1ST/1D9/1D25	1	1450580000
IE-FC-IP-1ST/1D9/1D25	1	1450650000

Accessories

Inserts, Signal

D-Sub, 9-pole, female/female
D-Sub, 9-pole, female / male
D-Sub, 9-pole, female / solder connection
D-Sub, 25-pole, female/female
D-Sub, 25-pole, female/male
D-Sub, 25-pole, female / solder connection
HDMI coupling
VGA coupling

Type	Qty.	Order No.
IE-FCH-D9-FF	1	1450840000
IE-FCH-D9-FM	1	1450850000
IE-FCH-D9-FS	1	1450870000
IE-FCH-HDMI-FF	1	2003390000
IE-FCHD15-FF	1	1556290000

Type	Qty.	Order No.
IE-FCH-D9-FF	1	1450840000
IE-FCH-D9-FM	1	1450850000
IE-FCH-D9-FS	1	1450870000
IE-FCH-D25-FM	1	1450890000
IE-FCH-D25-FS	1	1450900000
IE-FCH-D25-FF	1	1450880000
IE-FCH-HDMI-FF	1	2003390000
IE-FCHD15-FF	1	1556290000

Inserts, Data

RJ45 coupling
RJ45 module EIA/TIA T568 A
RJ45 module EIA/TIA T568 B
RJ45 module PROFINET
USB 2.0 A / A
USB 3.0 A / A
USB 2.0 A / B

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000
IE-BI-USB-AB	10	1131380000

Markers

for touch-safe protection and insert plates

ESG 7/20 SIRIUS MC NE WS	200	1736181044
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ESG 7/20 SIRIUS MC NE WS	200	1736181044
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Touch-safe protection

Touch-safe protection

IE-FC-PWPC	1	1450820000
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IE-FC-PWPC	1	1450820000
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Inserts, Power

US socket

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Fuse inserts

3 A

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Note

Data inserts

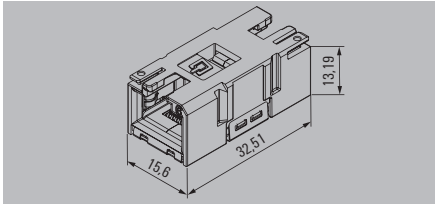
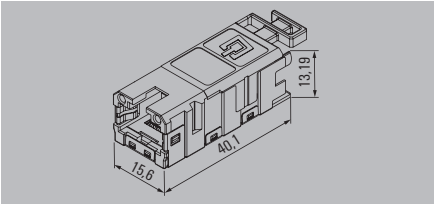
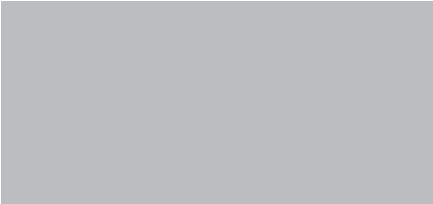
RJ45

- Cat. 6_A
- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Module



Coupling



Technical data

Protection degree
Plugging cycles
Shielding
Housing main material
Contact surface
Connection cross-section, flexible, min. / max.
Connection cross-section, solid, min. / max.
Insulation diameter, min. / max.
Connector standard
Ambient temperature (operational)
PoE / PoE+
Approvals

Note

IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm
AWG 26 / AWG 22
AWG 24 / AWG 22
0.85 mm...1.6 mm
IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3af
CULUS

Connection of WM Cat. 7 AWG 27/7 LSZH possible

IP67 with housing
750
360° all-round enclosure
Zinc diecast
Gold over nickel, Au ≥ 0.8 µm

IEC 60603-7-51
-40 °C...70 °C
conforming to IEEE 802.3af
CULUS; GERMLLOYD

Ordering data

tool-free		
	TIA-A. Cat. 6 _A	
	TIA-B. Cat. 6 _A	
	PROFINET Cat. 5	
	Coupling	

Note

Type	Qty.	Order No.
IE-BI-RJ45-FJ-A	10	1962850000
IE-BI-RJ45-FJ-B	10	1963840000
IE-BI-RJ45-FJ-P	10	1963830000

Type	Qty.	Order No.
IE-BI-RJ45-C	1	1962840000

Accessories

Tools
Optional pressing tool

Type	Qty.	Order No.
PWZ RJ45	1	1118040000

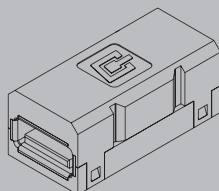
Type	Qty.	Order No.

Note

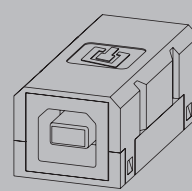
Data inserts USB

- IP20
- For housing variants 1, 4, 5, 14 and for FrontCom®

Coupling USB A/A



Coupling USB A/B



Technical data

Protection degree
Shielding
Ambient temperature (operational)
Connection 1 / 2
Connector standard
Approvals

Note

IP67 with housing
360° all-round enclosure
-40 °C...70 °C
USB A / USB A
IEC 61076-3-107
CULUS; GERMLLOYD

IP67 with housing
360° all-round enclosure
-40 °C...70 °C
USB A / USB B
IEC 61076-3-107
CULUS; GERMLLOYD

Ordering data

	USB 2.0
	USB 3.0

Note

Type	Qty.	Order No.
IE-BI-USB-A	10	1019570000
IE-BI-USB-3.0-A	10	1487920000

Type	Qty.	Order No.
IE-BI-USB-AB	10	1131380000

Accessories

USB cable 2.0	
	0.5 m
	1.0 m
	1.5 m
	1.8 m
	3.0 m
USB cable 3.0	
	0.5 m
	1.8 m
	3.0 m
	5.0 m

Type	Qty.	Order No.
IE-USB-A-A-0.5M	1	1993550005
IE-USB-A-A-1.0M	1	1993550010
IE-USB-A-A-1.5M	1	1993550015
IE-USB-A-A-1.8M	1	1993550018
IE-USB-A-A-3.0M	1	1993550030
IE-USB-3.0-A-A-0.5M	1	2581730005
IE-USB-3.0-A-A-1.8M	1	2581730018
IE-USB-3.0-A-A-3.0M	1	2581730030
IE-USB-3.0-A-A-5.0M	1	2581730050

Type	Qty.	Order No.

Note

Signal inserts

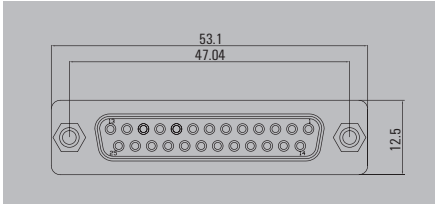
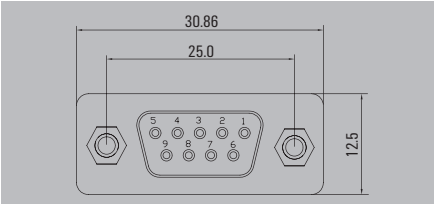
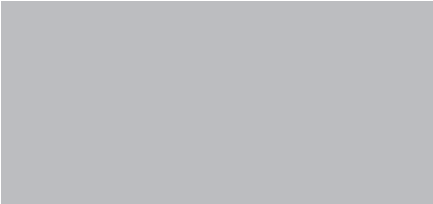
D-sub

- IP20

9-pole



25-pole



Technical data

Protection degree
Housing main material
No. of poles
Housing surface
Material insulator
Contact surface
Contact resistance
Insulation resistance
Dielectric strength, contact / contact
Ambient temperature (operational)
Approvals

Note

IP20
SPCC
9
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV_{eff} / 1 min.
-55 °C...105 °C
GERMLLOYD; UR

IP20
SPCC
25
tin-plated
PBT glass fibre reinforced UL 94 V-0
Gold-plated
≤ 20 mΩ
1000 MΩ at 500 V DC
1 kV_{eff} / 1 min.
-55 °C...105 °C
GERMLLOYD; UR

Ordering data

Socket / socket
Socket / plug
Socket / solder connection

Note

Type	Qty.	Order No.
IE-FCI-D9-FF	1	1450840000
IE-FCI-D9-FM	1	1450850000
IE-FCI-D9-FS	1	1450870000

Type	Qty.	Order No.
IE-FCI-D25-FF	1	1450880000
IE-FCI-D25-FM	1	1450890000
IE-FCI-D25-FS	1	1450900000

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Note

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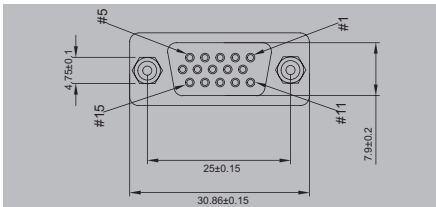
Signal inserts

- IP20

HDMI



HD15 / VGA



Technical data

Protection degree
Housing main material
No. of poles
Housing surface
Contact surface
Contact resistance
Insulation resistance
Dielectric strength, contact / contact
Ambient temperature (operational)
Approvals

Note

IP20
PVC casting
9

Gold-plated

-15 °C...50 °C
UR

IP20

25

Gold over nickel

1000 MΩ at 500 V DC
1000 V_{eff} / 1 min
-55 °C...105 °C
GERMLLOYD; UR

Ordering data

Note

Type	Qty.	Order No.
IE-FCHDMI-FF	1	2003390000

Type	Qty.	Order No.
IE-FCHD15-FF	1	1556290000

Accessories

Type	Qty.	Order No.

Type	Qty.	Order No.

Note

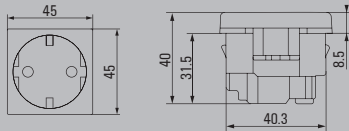
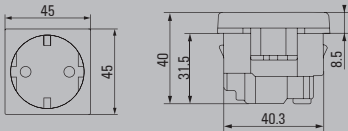
Power inserts
Power sockets

- IP20

Germany, white



Germany, orange



Technical data

Protection degree
Housing main material
Type of connection
Connector face
Connector standard
Line connection cross-section
finely stranded with wire-end ferrule
finely stranded without wire-end ferrule
finely stranded with wire-end ferrule
finely stranded without wire-end ferrule
Conductor connection cross-section, rigid
Stripping length
Rated voltage (AC)
Rated current
Ambient temperature (operational)
Approvals

IP20
Polycarbonate PC
PUSH IN
Type F
1.5 ... 1.5 mm²
1.5 ... 2.5 mm²
1.5 ... 1.5 mm²
1.5 ... 2.5 mm²
1.5 ... 2.5 mm²
10 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

IP20
Polycarbonate PC
PUSH IN
Type F
1.5 ... 1.5 mm²
1.5 ... 2.5 mm²
1.5 ... 1.5 mm²
1.5 ... 2.5 mm²
1.5 ... 2.5 mm²
10 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWB-DE	1	1450730000

Type	Qty.	Order No.
IE-FCI-PWB-DE-OR	1	1554000000

Accessories

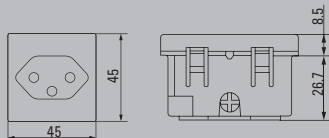
FrontCom	
Terminal rail adapter for socket adapter	
Flat blade connector, 6.5 mm	straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

Switzerland

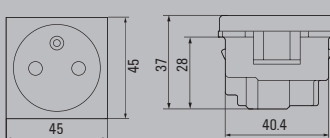


IP20
Polycarbonate PC
PUSH IN
Type J
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
10 mm
250 V
10 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-CH	1	1450780000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

France, white

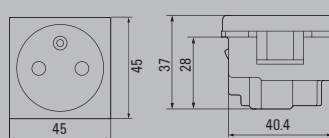


IP20
Polycarbonate PC
PUSH IN
Type E
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
10 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

Type	Qty.	Order No.
IE-FCI-PWB-FR	1	1450750000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

France, orange



IP20
Polycarbonate PC
PUSH IN
Type E
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
10 mm
250 V
16 A
-5 °C...50 °C

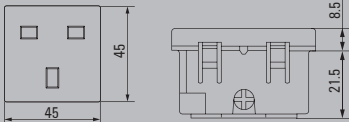
Type	Qty.	Order No.
IE-FCI-PWB-FR-OR	1	2007230000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

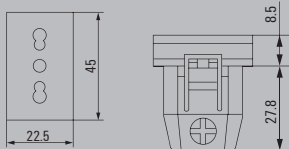
Power inserts
Power sockets

- IP20

UK



Italy / Europe



Technical data

Protection degree
Housing main material
Type of connection
Connector face
Connector standard
Line connection cross-section
finely stranded with wire-end ferrule
finely stranded without wire-end ferrule
finely stranded with wire-end ferrule
finely stranded without wire-end ferrule
Conductor connection cross-section, rigid
Stripping length
Rated voltage (AC)
Rated current
Ambient temperature (operational)
Approvals

Note

IP20
Polycarbonate PC
Screw connection
Type G

1.5 ... 2.5 mm²
1.5 ... 4 mm²
1.5 ... 2.5 mm²
1.5 ... 4 mm²
1.5 ... 4 mm²
9 mm
250 V
13 A
-5 °C...50 °C
GERMLLOYD

IP20
Polycarbonate PC
Screw connection
Type L

1.5 ... 2.5 mm²
1.5 ... 4 mm²
1.5 ... 2.5 mm²
1.5 ... 4 mm²
1.5 ... 4 mm²
9 mm
250 V
16 A
-5 °C...50 °C
GERMLLOYD

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWB-GB	1	1450770000

Type	Qty.	Order No.
IE-FCI-PWS-IT	1	1450810000

Accessories

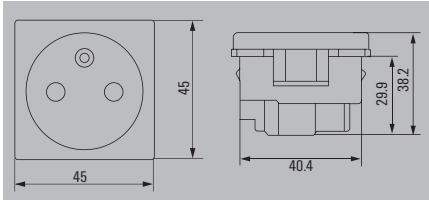
FrontCom	
Terminal rail adapter for socket adapter	
Flat blade connector, 6.5 mm	straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

Czech Republic

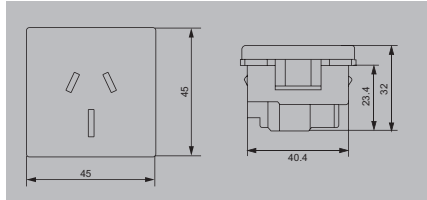


IP20
Polycarbonate PC
PUSH IN
Type E
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 1.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
12 mm
250 V
16 A
-5 °C...50 °C

Type	Qty.	Order No.
IE-FCI-PWB-CZ	1	2426700000

Type	Qty.	Order No.

Australia, 15 A

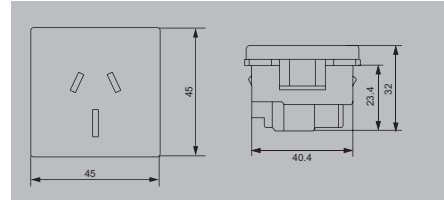


IP20
Polycarbonate PC
Screw connection
Type I
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
240 V
15 A
-5 °C...50 °C
GERMILLOYD

Type	Qty.	Order No.
IE-FCI-PWB-AU	1	1450830000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Australia, 10 A



IP20
Polycarbonate PC
Screw connection
Type I
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 2.5 mm ²
1.5 ... 4 mm ²
1.5 ... 4 mm ²
9 mm
240 V
10 A
-5 °C...50 °C
GERMILLOYD

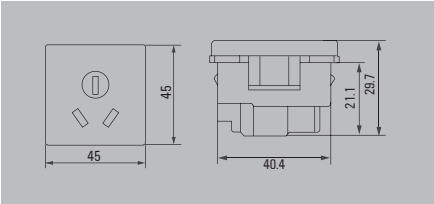
Type	Qty.	Order No.
IE-FCI-PWB-AU-10A	10	1546590000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

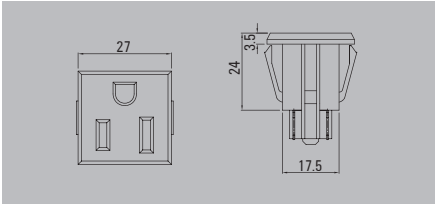
Power inserts
Power sockets

- IP20

China



USA



Technical data

- Protection degree
- Housing main material
- Type of connection
- Connector face
- Connector standard
- Line connection cross-section
 - finely stranded with wire-end ferrule
 - finely stranded without wire-end ferrule
 - finely stranded with wire-end ferrule
 - finely stranded without wire-end ferrule
- Conductor connection cross-section, rigid
- Stripping length
- Rated voltage (AC)
- Rated current
- Ambient temperature (operational)
- Approvals

Note

- IP20
- Polycarbonate PC
- Screw connection
- Type I

- 1.5 ... 2.5 mm²
- 1.5 ... 4 mm²
- 1.5 ... 2.5 mm²
- 1.5 ... 4 mm²
- 1.5 ... 4 mm²
- 9 mm
- 250 V
- 10 A
- 5 °C...50 °C
- GERMLOYD

- IP20
- PA 66
- Solder connection, FS 4.8 x 0.8
- Type B

- 125 V
- 15 A
- 20 °C...85 °C
- GERMLOYD; UR

Ordering data

Note

Accessories

- FrontCom
 - Terminal rail adapter for socket adapter
- Flat blade connector, 6.5 mm
 - straight, 4.8 mm, fully insulated

Type	Qty.	Order No.
IE-FCI-PWB-CN	1	1450790000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

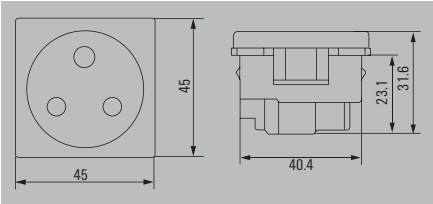
Type	Qty.	Order No.
IE-FCI-PWS-US	1	1450800000

For US socket the touch-safe protection is mandatory

Type	Qty.	Order No.
VFSKHV/1,5-2,5/485	100	1491920000

Note

India

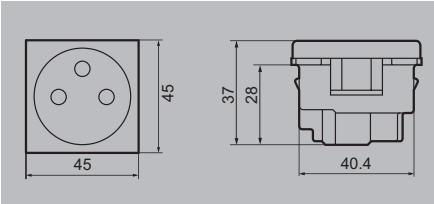


IP20
Polycarbonate PC
Screw connection
Type D
1.5 ... 2.5 mm²
1.5 ... 2.5 mm²
1.5 ... 4 mm²
9 mm
250 V
13 A
-5 °C...50 °C

Type	Qty.	Order No.
IE-FCI-PWB-IND	1	2500710000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Israel



IP20
PP
Screw connection
Type H
1.5 ... 1.5 mm²
1.5 ... 1.5 mm²
1.5 ... 2.5 mm²
11 mm
250 V
16 A
-5 °C...50 °C

Type	Qty.	Order No.
IE-FCI-PWB-ISR	1	2531060000

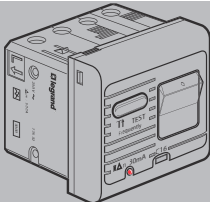
Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Power inserts

RCBO

- IP20

RCBO



Technical data

Ambient temperature (operational)
Operating voltage
Rated current
 $I_{\Delta n}$
 $I_{\Delta n}$
Triggering characteristic
Type of connection
Line connection cross-section
 finely stranded with wire-end ferrule
 finely stranded with wire-end ferrule
Conductor connection cross-section, rigid

-5 °C...40 °C
230 V AC
16 A
500 A
30 mA
Typ C
Screw connection

1.5 ... 2.5 mm²
1.5 ... 2.5 mm²
1.5 ... 2.5 mm²

Note

Ordering data

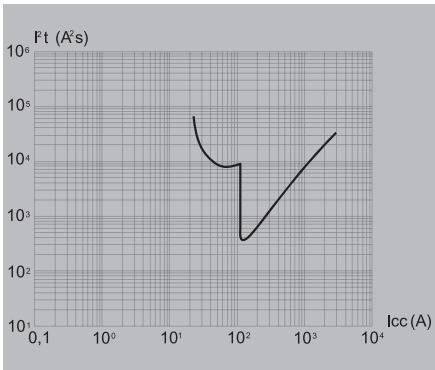
Note

Accessories

FrontCom
Terminal rail adapter for socket adapter

Type	Qty.	Order No.
IE-FCI-PWB-RCBO	1	1534250000

Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

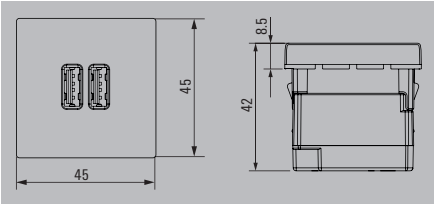


Note

Power inserts
USB charge insert

- IP20

USB-Charger 5 V / 2.4 A



Technical data

Ambient temperature (operational)
Input voltage
Frequency range
Input current
Output voltage
Output current
Degree of efficiency
Power consumption in standby mode
Standards
Class of protection
Housing main material
Type of connection
Line connection cross-section
finely stranded with wire-end ferrule
finely stranded with wire-end ferrule
Conductor connection cross-section, rigid
Stripping length

Note

0 °C...45 °C
220...240 V AC
50...60 Hz
≤ 300 mA
5 V DC
2.4 A
81 %
max. 0.1 W
EN 60950-1, EN 62684, EN 50558
II
Polycarbonate PC
Screw connection
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
1.5 ... 2.5 mm ²
6 mm

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWB-2USB-A-5V	1	2505070000

Accessories

FrontCom	Terminal rail adapter for socket adapter
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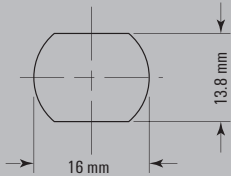
Type	Qty.	Order No.
IE-DINRAIL-AD-PWB	1	2534680000

Note

3A fuse

- IP20

3A fuse



Technical data

Operating voltage
Rated current
Type of connection

32 V DC, 250 V AC
3 A
Flat-blade receptacles 6.5 mm

Note

Ordering data

Note

Type	Qty.	Order No.
IE-FCI-PWVCB-3A	1	1543690000

Accessories

Flat blade connector, 6.5 mm

angled
straight

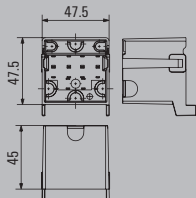
Type	Qty.	Order No.
WFSKHV/1,5-2,5	100	1491970000
VFSKHV/1,5-2,5/638	100	1491940000

Note

Accessories

Touch-safe protection

Touch-safe protection



Technical data

Length x width x height

Material

47.5 / 47.5 / 45 mm

PC

Note

Ordering data

Note

Type	Qty.	Order No.
IE-FC-PWPC	1	1450820000

Accessories

Type	Qty.	Order No.

Note

Sets

Incl. fixed label: "Service only!", "USB", "Ethernet", "230 V AC"

2x Data, 1x Power



2x Data, 1x Power



Technical data

Frame
Insert plate
Data inserts
Power inserts
Rated voltage for socket
Rated current for socket
Protection degree
products included in the set

Plastic cover, Lockable with key
2x data, 1x power, Shielded
USB 2.0 A/A, RJ45 coupling Cat.6_A
Socket DE
250 V
16 A
IP65, in closed state
1450520000;1450550000;1450730000;1019570000;
1962840000;1450820000

Plastic cover, Lockable with key
2x data, 1x power, Unshielded
USB 2.0 A/A, RJ45 coupling Cat.6_A
Socket DE
250 V
16 A
IP65, in closed state
1450520000;1450630000;1450730000;1019570000;
1962840000;1450820000

Note

Ordering data

shielded
unshielded

Note

Type	Qty.	Order No.
IE-FC-SET-SPDEK001-KY-P	1	1989020000

Type	Qty.	Order No.
IE-FC-SET-IPDEK001-KY-P	1	1543680000

Accessories

Type	Qty.	Order No.
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Type	Qty.	Order No.
------	------	-----------

Note

Note

Note

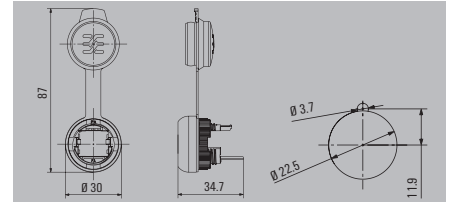
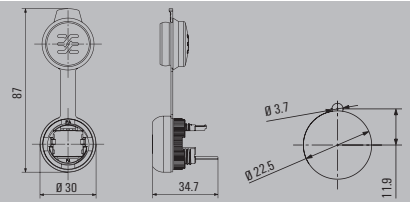
FrontCom® Micro IP65 service interface

FrontCom® Micro RJ45
Module

8-wire



4-wire



Technical data

Category
Protection degree
Housing main material
Contact surface
Colour
Shielding
Type of mounting
Plugging cycles
Connector standard
Connection 1 / 2
Wall thickness, min. / max.
Dust protection cap material
PoE / PoE+
Ambient temperature (operational)
Approvals
Note

Cat.6 _A / Class E _A (ISO/IEC 11801 2010)
IP67, in closed state
PA UL 94 V0
Gold over nickel
Black
360° shield contact
Cabinet, Distribution box
750
IEC 60603-7-51
RJ45 / IDC
1 mm / 3 mm
EPDM
conforming to IEEE 802.3af
-40 °C...70 °C
CULUS

Cat.5 (ISO/IEC 11801)
IP67, in closed state
PA UL 94 V0
Gold over nickel
Black
360° shield contact
Cabinet, Distribution box
750
IEC 60603-7-51
RJ45 / IDC
1 mm / 3 mm
EPDM
conforming to IEEE 802.3af
-40 °C...70 °C
CULUS

Ordering data

PROFINET module
TIA-A module
TIA-B module
Note

Type	Qty.	Order No.
IE-FCM-RJ45-FJ-A	10	1018810000
IE-FCM-RJ45-FJ-B	10	1018820000

Type	Qty.	Order No.
IE-FCM-RJ45-FJ-P	10	1018830000

Accessories

Fixing tool
Marker, outside
Marker, inside



SwitchMark markers white
SwitchMark holder

MultiCard, white

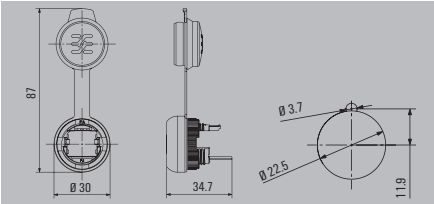
Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000
ESG 9/11 K MC NE WS	200	1857440000

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000
ESG 9/11 K MC NE WS	200	1857440000

Note

FrontCom® Micro RJ45
Coupling

8-wire



Technical data

Category
Protection degree
Housing main material
Contact surface
Colour
Shielding
Type of mounting
Plugging cycles
Connector standard
Connection 1 / 2
Wall thickness, min. / max.
Dust protection cap material
PoE / PoE+
Ambient temperature (operational)
Approvals

Note

Cat.6_A / Class E_A (ISO/IEC 11801 2010)
IP67, in closed state
PA UL 94 V0
Gold over nickel
Black
360° shield contact
Cabinet, Distribution box
750
IEC 60603-7-51
RJ45 / RJ45
1 mm / 3 mm
EPDM
conforming to IEEE 802.3af
-40 °C...70 °C
CULUS

Ordering data

Coupling

Note

Type	Qty.	Order No.
IE-FCM-RJ45-C	10	1018790000

Accessories

Fixing tool

Marker, outside



SwitchMark markers white
SwitchMark holder

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000

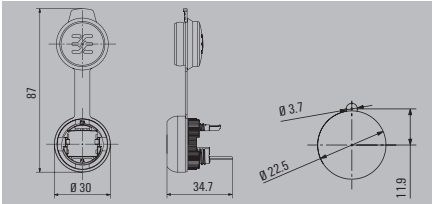
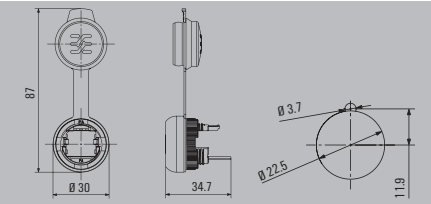
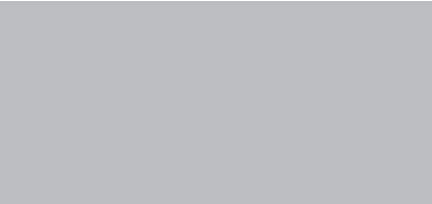
Note

FrontCom® Micro IP65 service interface

FrontCom® Micro USB

Coupling AA

Coupling AB



Technical data

Ambient temperature (operational)
Protection degree
Housing main material
Colour
Shielding
Type of mounting
Connector standard
Connection 1 / 2
Dust protection cap material
Wall thickness, min. / max.
Approvals
Note

-40 °C...70 °C
IP67, in closed state
PA UL 94 V0
Black
360° shield contact
Cabinet, Distribution box
IEC 61076-3-107
USB A / USB A
EPDM
1 mm / 3 mm
CULUS
Approvals available on request

-40 °C...70 °C
IP67, in closed state
PA UL 94 V0
Black
360° shield contact
Cabinet, Distribution box
IEC 61076-3-107
USB A / USB B
EPDM
1 mm / 3 mm
CULUS

Ordering data

USB 2.0
USB 3.0
Note

Type	Qty.	Order No.
IE-FCM-USB-A	10	1018840000
IE-FCM-USB-3.0-A	10	1427960000

Type	Qty.	Order No.
IE-FCM-USB-AB	10	1222550000

Accessories

Fixing tool
Marker, outside
Marker, inside
USB cable 2.0
USB cable 3.0

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000
ESG 9/11 K MC NE WS	200	1857440000
IE-USB-A-A-0.5M	1	1993550005
IE-USB-A-A-1.0M	1	1993550010
IE-USB-A-A-1.5M	1	1993550015
IE-USB-A-A-1.8M	1	1993550018
IE-USB-A-A-3.0M	1	1993550030
IE-USB-3.0-A-A-0.5M	1	2581730005
IE-USB-3.0-A-A-1.8M	1	2581730018
IE-USB-3.0-A-A-3.0M	1	2581730030
IE-USB-3.0-A-A-5.0M	1	2581730050

Type	Qty.	Order No.
IE-FISP-V4	2	9204370000
SM 27/18 MC NE WS	80	1699860000
SM-H 27/18 SW	25	1716630000
ESG 9/11 K MC NE WS	200	1857440000

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