wieland

revos FLEX COMPACT **1M**
the housing system
for *revos* FLEX **modules**

Optimal protection.

revosFLEX COMPACT 1M **applications:**

- Control cabinet and motor connection
- Wind turbines
- Mechanical engineering and plant construction
- Construction machinery
- Shipbuilding
- Food industry

revos FLEX COMPACT 1M – indestructible housings for flexible use

Efficiency and safety

Wieland Electric's *revos* FLEX COMPACT 1M is a flexible solution for connecting electrical signals.
For example, the pluggable connector system is used as an electrical interface in control cabinets, as a pluggable connector for motor drives or simply as a pluggable extension. The housing components of the *revos* FLEX COMPACT 1M series are highly flexible. All *revos* FLEX module inserts with a module width of 1 can be used. The module inserts can be quickly fitted without any tools whatsoever.

The optimized fitting reduces electrical installation time compared with standard housings by up to 30 %.
The *revos* FLEX COMPACT 1M series housings are robust and virtually indestructible. They are corrosion-protected to DIN EN ISO 9227 (720hrs). They are protected by internal seals against UV radiation that accelerates aging. They are protected against dust ingress, spray water and prolonged immersion and comply with protection ratings **IP65**, **IP68** and **IP69k**. An EMC attenuation of > 70 dB in the frequency range to 100 MHz keeps interference away from sensitive downstream electronics.

Features:

- Compact and robust housing. Stainless steel locking lever.
- Corrosion protection: 720 hrs NSS according to DIN EN ISO 9227
- EMC protection: coupling resistance < 10 mΩ to 30 MHz, attenuation > 70 dB to 100 MHz
- Highly flexible due to modular design
- IP65, IP68 (3 m / 10 hrs) and IP69k
- Easy and quick to fit – time-saving of 30 %

TOP 100 Top-Innovator 2013

Wieland Electric GmbH was awarded the TOP 100 innovation prize of German medium-sized companies for the sixth time.

Design of the revosFLEX COMPACT 1M housing system

UPPER SHELL

- Cable outlet: side or top
- Cable connection: with M20 or M25 thread

MODULE CARRIER WITHOUT LOCKING LEVER

- Module positions 1
- Clamping area PE: 0.34 – 10 mm²

MODULE CARRIER WITH LOCKING LEVER

- Module positions 1
- Clamping area PE: 0.34 – 10 mm²

Variants: revos FLEX COMPACT 1M

Combination for control cabinet feedthrough, machine or motor

Hood

Open-bottom Base with locking lever

Hood with locking lever

Open-bottom Base

Combination for flying connection

Hood

Hood with locking lever

Technical benefits:

- Very high corrosion protection: 720hrs salt spray test according to DIN EN ISO 9227
- EMC protection: Coupling resistance < 10mΩ to 30 MHz, attenuation > 70 dB to 100 MHz, thereby reliably diverting away interference voltages
- Compact dimensions

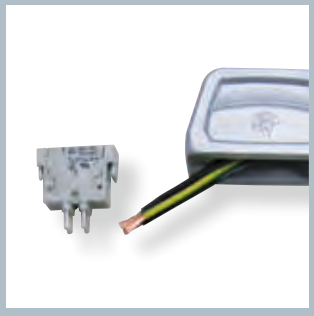
Fitting benefits:

- Mechanical and electrical assembly takes place at different times (thereby enabling cable sets to be fitted subsequently)
- No special tools required
- Module inserts can be fitted from the inside face of the devices/control cabinet bulkhead
- Captive fastening screws cannot be lost

Assembling a connector (control cabinet feedthrough)

e. g. 4-pole + PE, 14 A, 400 V

Assembly of hood 1



Insert stripped cable

Connect PE conductor

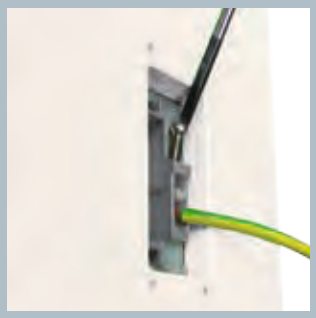
Engage module insert

Click!

Screw on upper shell

Assembly of base 2

Affix base to the control cabinet



Connect PE

Snap in module insert from inside

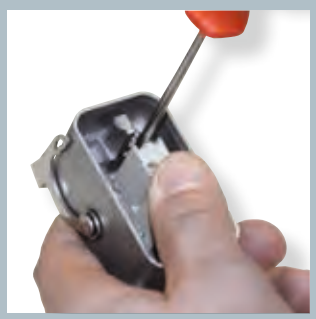
Click!

Fitting the connector system 3

Click!

Ready!

Detaching the contact insert 4



If required, detach the contact insert with a screwdriver

revos FLEX COMPACT 1M – in use on the control cabinet

Advantages:

- Simple pre-fitting of the module carrier on the control cabinet (by locking the modules in place on the rear panel)
- Fast and faultless wiring and installation (by means of modules that can be pre-fitted in the factory)
- Modules simply fitted on-site
- No special tools required (exception: crimp connection)

Customer benefits

- Optimized module installation cuts fitting time by 30 %
- Cable looms can be pre-manufactured (100 % factory inspection possible)
- Protection against mismating

The electromagnetic compatibility (EMC) of the revos FLEX COMPACT 1M housing system

EMC

Because of their design characteristics revos FLEX COMPACT pluggable connectors possess outstanding EMC characteristics. The coupling resistance and shielding attenuation values were determined in accordance with standard IEC60603-7-3.

A coupling resistance of < 10 mΩ in the lower DC frequency range to 30 MHz and a shielding attenuation > 70 dB in a frequency range of 30 MHz to 100 MHz ensures that transient interference phenomena can be reliably diverted away via the outer protective shield. Induced current and voltage caused by indirect lightning strikes are thus minimized on the components to be protected.

EMC-optimized housing characteristics:

- Large overlap of housing components
- All-round, large area contact between connector housings

Proven product characteristics of revos FLEX COMPACT 1M

Proven safety

Heavy duty connectors are employed all year round in many outdoor applications. They must withstand constant shocks and resist high thermal and mechanical stresses, such as stone impact, dust, water, heat and cold. Occasionally they are misused as a climbing aid.

But in this digital and process-controlled era the new standard housings must perform convincingly not just in terms of their mechanical attributes but of the increasingly important protection against electro-magnetic interference. The robust and intelligently designed construction of the revos FLEX COMPACT connection system enables energy, signal or bus cables to be reliably and safely connected and protected against environmental influences.

Corrosion testing according to DIN EN ISO 9227

In applications such as construction machinery, commercial vehicles, the food industry, etc, heavy-duty pluggable connectors are exposed to aggressive chemical substances such as acids, alkalis, oils or salts which can result in severe corrosion within a short space of time.
The revos FLEX COMPACT 1M pluggable connector can withstand this extreme pollution as well.

Corrosion testing in an artificial atmosphere

DIN EN ISO 9227 salt spray testing

Test parameters:

- Chamber temperature: 30 °C + 2 °C
- NaCl concentration: 50 g/l + 5
- Ph value: 6.5 to 7.2
- test duration: 30 days

Result:

After 720 hrs NSS in accordance with DIN EN ISO 9227 the revos FLEX COMPACT 1M exhibited no signs of corrosion.

revosFLEX COMPACT 1M
pluggable connectors undergoing testing

IP 6X IEC 60529 | dust

Protection of contact inserts against dust ingress.

Test parameters:

- Negative pressure: 20 mbar
- Test duration: 8 hrs

Result:

The revosFLEX COMPACT 1M met the IP 6X protection rating requirements. There was no visible ingress of dust into the pluggable connector.

IP X5 IEC 60529 | spray water

Protection against harm as a result of spray water ingress.

Test parameters:

- Spray nozzle: 6.3 mm
- Water flow rate: 12.5 l/min
- Test duration: at least 3 minutes

IP X8 IEC 60529 | immersion

Protection against prolonged immersion in water.

Test parameters:

- Water column: 3 m
- Test duration: 10 hrs

Result:

The revosFLEX COMPACT 1M met the IP X5/X8 protection rating requirements. There was no water ingress into the pluggable connector.

IP X9k IEC 60529 | high pressure /steam jets

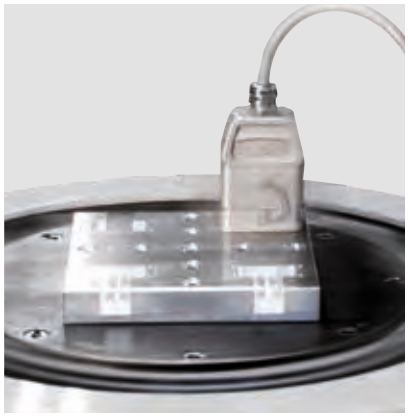
Water protection during high pressure and steam jet testing.

Test parameters:

- Water pressure: 80 to 100 bar
- Water temperature: +80 °C ± 5 °C
- Water flow: 14 to 16 l/min

Result:

The revosFLEX COMPACT 1M met the IP 69k protection rating requirement and is therefore ideally suited for outdoor use.



Shock and vibration testing

Pluggable connectors used in railway technology are exposed to especially extreme vibrations.

Result:
The ***revos*** FLEX COMPACT 1M pluggable connector meets the requirements of DIN EN 50155 category1, class B and is thus suitable for use in railway vehicle bodies.

Impact resistance testing IK 08

The IK impact resistance rating is an index indicating a housing's resistance to impact. No damage may be incurred during testing that could impair the functioning or safety of the housing.

Result:
The ***revos*** FLEX COMPACT 1M pluggable connector meets IK 08 requirements.

Roll-over test

In industrial environments, heavy loads are routinely moved by floor conveyors such as fork lift trucks. Further evidence of the ruggedness of the ***revos*** FLEX COMPACT 1M pluggable connector is provided by the roll-over test modeled on DIN EN 62196-1.

Result:
The ***revos*** FLEX COMPACT 1M pluggable connector also withstands this extreme stress unscathed.

Module Carrier and Upper Shell

Module Carrier and Upper Shell revosFLEX COMPACT 1M

Module Carrier

with locking lever
without locking lever

Upper Shell Lateral cable entry

Upper Shell Top cable entry

Description	Type	M	Part No.	P.U.
Module Carrier				
with locking lever	RFC MC L 1 M A20		78.320.0134.0	1
without locking lever	RFC MC 1 M A20		78.330.0134.0	1
Upper Shell				
Lateral cable entry M20				
with threaded collar	RFC TS 1M M20S A21	20	78.352.0134.1	1
with cable gland, IP68, ⇥|Ø|⇤ 8 – 13 mm	RFC TS 1M M20S A25	20	78.352.0134.5	1
Lateral cable entry M25				
with threaded collar	RFC TS 1M M25S A21	25	78.353.0134.1	1
with cable gland, IP68, ⇥|Ø|⇤ 11 – 18 mm	RFC TS 1M M25S A25	25	78.353.0134.5	1
Top cable entry M20				
with threaded collar	RFC TS 1M M20T A21	20	78.362.0134.1	1
with cable gland, IP68, ⇥|Ø|⇤ 8 – 13 mm	RFC TS 1M M20T A25	20	78.362.0134.5	1
Top cable entry M25				
with threaded collar	RFC TS 1M M20T A21	25	78.363.0134.1	1
with cable gland, IP68, ⇥|Ø|⇤ 11 – 18 mm	RFC TS 1M M20T A25	25	78.363.0134.5	1

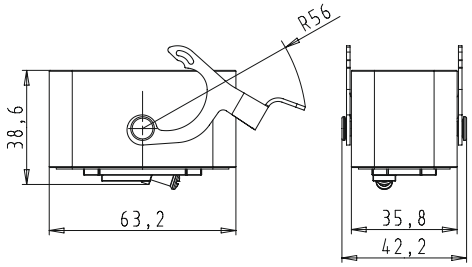
Technical data	
Material	aluminum
Surface	-
Locking levers	stainless steel
Gasket	NBR
PE connection	0.34 – 10 mm²
Corrosion protection	720 hrs (ISO 9227)
Mating cycles	500 (EN 61984)
Vibration	Class B – Category 1 (DIN EN 50155)
Degree of protection	
with appropriate cable glands	IP65 & IP68 (3 m / 10 hrs) & IP69k (DIN EN 60529)
Temperature range	-40 °C – +120 °C
EMC	
EMC coupling resistance acc. to IEC60603-7-3	< 10 mOhm DC to 10 MHz
EMC shielding attenuation	> 70dB 10 MHz to 100 MHz
Expanded measuring span (in connection with suitable EMC cable screw gland)	
Approval	
NEMA-Degree of protection	UL Type 4x
Applicable modules	all modules with module width 1

Description	Type	M	Part No.	P.U.
Accessories				
Cable gland IP68, nickel-plated brass	Connection range 8 – 13mm	20	Z5.507.1321.0	10
Cable gland IP68, nickel-plated brass	Connection range 11 – 18mm	25	Z5.507.1521.0	10
Cable gland IP68 EMC, nickel-plated brass	Connection range 8 - 13 mm	20	Z5.507.4821.0	10
Cable gland IP68 EMC, nickel-plated brass	Connection range 11 - 18 mm	25	Z5.507.5021.0	10
Cable gland IP69k nickel-plated brass	Connection range 6 - 12 mm	20	Z5.505.7121.0	10
Cable gland IP69k nickel-plated brass	Connection range 11 - 17 mm	25	Z5.505.7221.0	10

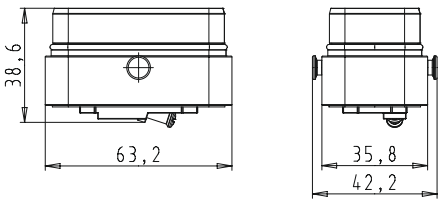
Dimensions

Module Carrier

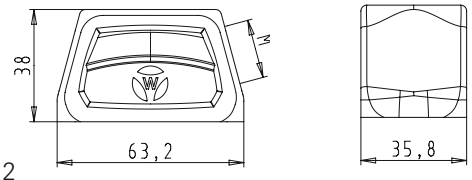
with locking lever



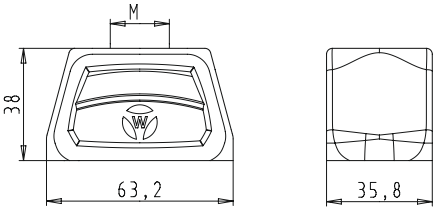
without locking lever



Upper Shell Lateral cable entry



Upper Shell Top cable entry

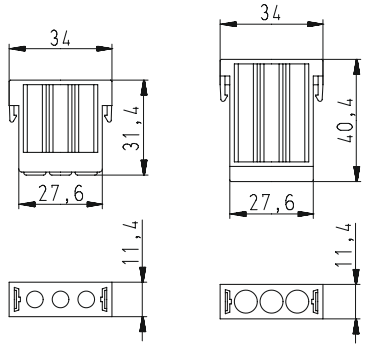


Modular connector system 3-pole, 4-pole + ground

Modular inserts revos FLEX

3-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**3-pole**		
Male insert	FLE STC 3 69	78.014.0353.0	10
Female insert	FLE BUC 3 69	78.004.0353.0	10
Contacts	mm² / AWG, turned Ø 3.6 mm		
Male insert, Ag (Crimping die B)	1.5 / 16	05.544.1829.8	100
Female insert, Ag (Crimping die B)	1.5 / 16	02.125.2929.8	100
Male insert, Ag (Crimping die B)	2.5 / 14	05.544.1929.8	100
Female insert, Ag (Crimping die B)	2.5 / 14	02.125.3029.8	100
Male insert, Ag (Crimping die D)	4 / 12	05.544.3129.8	100
Female insert, Ag (Crimping die D)	4 / 12	02.125.3129.8	100
Male insert, Ag (Crimping die D)	6 / 10	05.544.3229.8	100
Female insert, Ag (Crimping die D)	6 / 10	02.125.3229.8	100
Male insert, Ag (Crimping die D)	10 / 8	05.544.3329.8	100
Female insert, Ag (Crimping die D)	10 / 8	02.125.3329.8	100

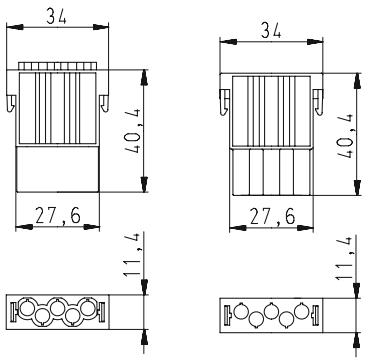
Technical data	
Rated voltage	630 V
Rated voltage according to UL/CSA	600 V
Rated impulse voltage	8 kV
Rated current	40 A (UL 40 A, CSA 35 A)
Degree of pollution	3
Insulation strip length	10 mm
Contact resistance	≤ 1 mΩ
Mating cycles	500
Insulating material	Polycarbonate, halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"B"	05.502.2100.0	1
Crimping die	"D"	05.502.2300.0	1
Contact positioner	"1"	05.502.3100.0	1

Modular inserts revos FLEX

4-pole + ground

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**4-pole + ground**		
Male insert	FLE STC 4P 1K	78.013.0453.0	10
Female insert	FLE BUC 4P 1K	78.003.0453.0	10
Contacts	mm² / AWG, stamped Ø 2.5 mm		
Male insert, Ag	0.5 – 1.5 / 20 – 16	05.544.3429.8	100
Female insert, Ag	0.5 – 1.5 / 20 – 16	02.125.3429.8	100
Male insert, Ag	1.5 – 2.5 / 16 – 14	05.544.3529.8	100
Female insert, Ag	1.5 – 2.5 / 16 – 14	02.125.3529.8	100

Technical data	
Rated voltage	1000 V
Rated voltage according to UL/CSA	600 V
Rated impulse voltage	8 kV
Rated current	16 A (UL 13 A, CSA 16 A)
Degree of pollution	3
Insulation strip length	4 mm
Contact resistance	≤ 5 mΩ
Mating cycles	500
Insulating material	Polyamide 6.6 GF, halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

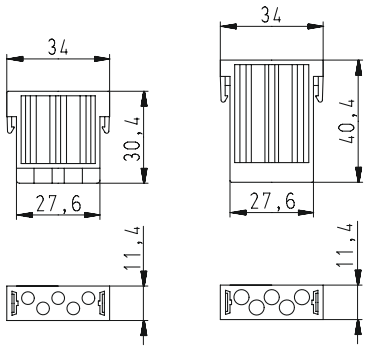
Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"C"	05.502.2200.0	1
Contact positioner	"2"	05.502.3200.0	1

Modular connector system 5-pole, 10-pole

Modular inserts revosFLEX

5-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revosFLEX	**5-pole**		
Male insert	FLE STC 5 25	78.013.0553.0	10
Female insert	FLE BUC 5 5	78.003.0553.0	10
Contacts	mm^2 / AWG, turned Ø 2.5 mm		
Male insert, Ag	0.5 / 20	05.544.3629.8	100
Female insert, Ag	0.5 / 20	02.125.3629.8	100
Male insert, Ag	0.75 – 1.0 / 18	05.544.3729.8	100
Female insert, Ag	0.75 – 1.0 / 18	02.125.3729.8	100
Male insert, Ag	1.5 / 16	05.544.3829.8	100
Female insert, Ag	1.5 / 16	02.125.3829.8	100
Male insert, Ag	2.5 / 14	05.544.3929.8	100
Female insert, Ag	2.5 / 14	02.125.3929.8	100
Male insert, Ag	4 / 12	05.544.4029.8	100
Female insert, Ag	4 / 12	02.125.4029.8	100

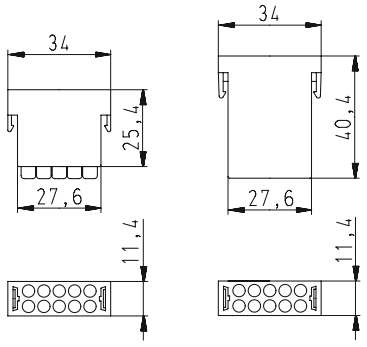
Technical data	
Rated voltage	250 V
Rated voltage according to UL/CSA	UL 400 V, CSA 600 V
Rated impulse voltage	6 kV
Rated current	20 A (UL 20 A, CSA 16 A)
Degree of pollution	3
Insulation strip length	8 mm
Contact resistance	≤ 2 mΩ
Mating cycles	500
Insulating material	Polycarbonate, halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"B"	05.502.2100.0	1
Contact positioner	"1"	05.502.3100.0	1

Modular inserts revosFLEX

10-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revosFLEX	**10-pole**		
Male insert	FLE STC 10 25	78.012.1053.0	10
Female insert	FLE BUC 10 5	78.002.1053.0	10
Contacts	mm^2 / AWG, turned Ø 1.6 mm		
Male insert, Ag	0.14 – 0.37 / 26 – 22	05.544.4129.8	100
Female insert, Ag	0.14 – 0.37 / 26 – 22	02.125.4129.8	100
Male insert, Ag	0.5 / 20	05.544.4229.8	100
Female insert, Ag	0.5 / 20	02.125.4229.8	100
Male insert, Ag	0.75 – 1.0 / 18	05.544.4329.8	100
Female insert, Ag	0.75 – 1.0 / 18	02.125.4329.8	100
Male insert, Ag	1.5 / 16	05.544.4429.8	100
Female insert, Ag	1.5 / 16	02.125.4429.8	100
Male insert, Ag	2.5 / 14	05.544.4529.8	100
Female insert, Ag	2.5 / 14	02.125.4529.8	100
Male insert, LWL POF	Ø 1.6 mm	05.544.8121.0	5
Female insert, LWL POF	Ø 1.6 mm	02.125.2421.0	5

Technical data	
Rated voltage	250 V
Rated voltage according to UL/CSA	UL 240 V, CSA 600 V
Rated impulse voltage	4 kV
Rated current	10 A
Degree of pollution	3
Insulation strip length	8 mm
Contact resistance	≤ 5 mΩ
Mating cycles	500
Insulating material	Polycarbonate, halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

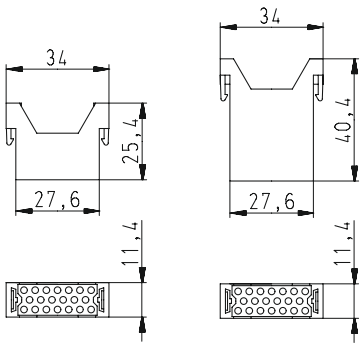
Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"B"	05.502.2100.0	1
Contact positioner	"1"	05.502.3100.0	1

Modular connector system 20-pole, Spring clamp module 4-pole

Modular inserts revos FLEX

20-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**20-pole**		
Male insert	FLE STC 20 10	78.011.2053.0	10
Female insert	FLE BUC 20 10	78.001.2053.0	10
Contacts	mm^2 / AWG, stamped Ø 1.0 mm		
Male insert, Au	0.09 – 0.25 / 28 – 24	05.544.4629.7	100
Female insert, Au	0.09 – 0.25 / 28 – 24	02.125.4629.7	100
Male insert, Au	0.25 – 0.5 / 24 – 20	05.544.4729.7	100
Female insert, Au	0.25 – 0.5 / 24 – 20	02.125.4729.7	100

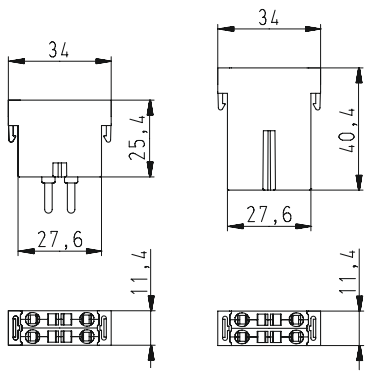
Technical data	
Rated voltage	100 V
Rated voltage according to UL/CSA	60 V
Rated impulse voltage	1,5 kV
Rated current	4 A (UL , CSA 5 A)
Degree of pollution	3
Insulation strip length	3 mm
Contact resistance	≤ 5 mΩ
Mating cycles	500
Insulating material	Polycarbonate, halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"A"	05.502.2000.0	1
Contact positioner	"4"	05.502.3800.0	1

Modular inserts revos FLEX

Spring clamp module 4-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**4-pole**		
Male insert	FLE STF 4 2.5 40 AG	78.213.0453.0	10
Female insert	FLE BUS 4 2.5 40 AG	78.203.0453.0	10

Technical data	
Rated voltage	400 V
Rated voltage according to UL/CSA	600 V
Rated impulse voltage	6 kV
Rated current	14 A
Degree of pollution	3
Insulation strip length	10 mm
Rated cross section	
EN 60999	0.5 – 2.5 mm^2
UL	20 – 12 AWG
CSA	20 – 12 AWG
Mating cycles	200
Contact resistance	≤ 5 mΩ
Surface	Ag
Mating cycles	100
Insulating material	Polycarbonate. halogen-free
Flammability	UL 94 V-0
Temperature range	-40 – +120 °C
Derating curve	Page 18

Description	Type	Part No.	P.U.
Accessories			
Screwdriver blade	DIN 5264 A 0.6 x 3.5 mm	06.502.4000.0	5

Modular connector system

Modular inserts *revos* FLEX

Pneumatic module 1 connection

Pneumatic module 2 connections

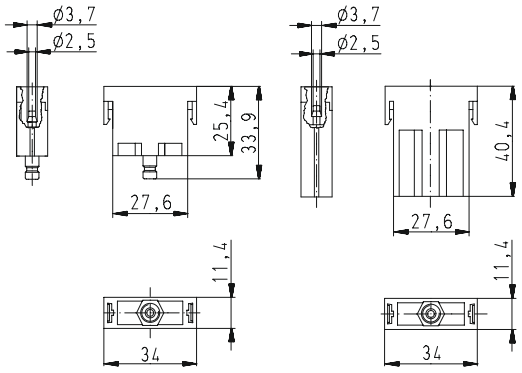
Description	Type	Part No.	P.U.
Modular inserts *revos* FLEX	**Pneumatic module Ø 2,5 mm**		
1 connection			
Male insert	FLE STP 1 2.5	78.913.0153.0	5
Female insert with valve	FLE BUP 1 2.5	78.903.0153.0	5
2 connections			
Male insert	FLE STP 2 2.5	78.913.0253.0	5
Female insert with valve	FLE BUP 2 2.5	78.903.0253.0	5
Modular inserts *revos* FLEX	**Pneumatic module Ø 4 mm**		
1 connection			
Male insert	FLE STP 1 4	78.914.0153.0	5
Female insert with valve	FLE BUP 1 4	78.904.0153.0	5
2 connections			
Male insert	FLE STP 2 4	78.914.0253.0	5
Female insert with valve	FLE BUP 2 4	78.904.0253.0	5

Technical data			
Hose connection	Type / Ø inside	Module Ø 2.5 mm / 2.5 mm	Module Ø 4 mm / 4 mm
Operational pressure		10 bar	
Material of the pneumatic contact		Brass MS 58	
Insulating material		Polyamide 6.6 GF	
Flammability class		UL 94 V-0	
Temperature range		-40 – +100 °C	

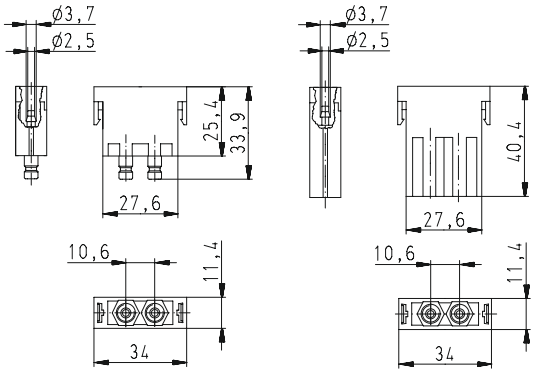
Dimensions

Pneumatic module Ø 2.5 mm

1 connection

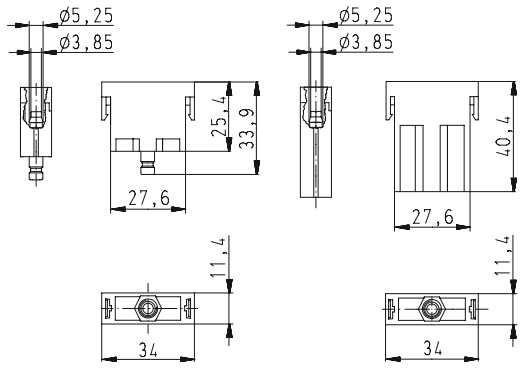


2 connections

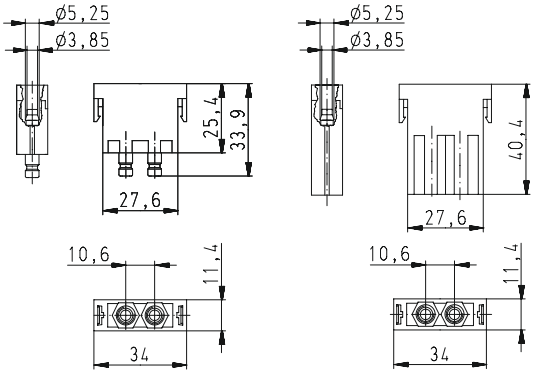


Pneumatic module Ø 4 mm

1 connection



2 connections



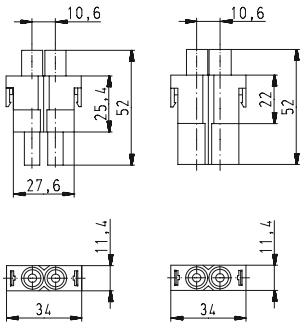
Modular connector system High voltage, USB, Profibus module

Modular inserts revos FLEX

cULus

High voltage module 2-pole

Dimensions



Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**2-pole**		
Male insert	FLE SUC 2 5K	78.013.0253.0	5
Female insert	FLE BUC 5 5K	78.003.0253.0	5
Contacts	mm^2 / AWG, turned Ø 2.5 mm		
Male insert, Ag	0.5 / 20	05.544.3629.8	100
Female insert, Ag	0.5 / 20	02.125.3629.8	100
Male insert, Ag	0.75 – 1.0 / 18	05.544.3729.8	100
Female insert, Ag	0.75 – 1.0 / 18	02.125.3729.8	100
Male insert, Ag	1.5 / 16	05.544.3829.8	100
Female insert, Ag	1.5 / 16	02.125.3829.8	100
Male insert, Ag	2.5 / 14	05.544.3929.8	100
Female insert, Ag	2.5 / 14	02.125.3929.8	100
Male insert, Ag	4 / 12	05.544.4029.8	100
Female insert, Ag	4 / 12	02.125.4029.8	100

Technical data	
Rated voltage	2.8 kV / 5.5 kV at pollution degree 2
Rated voltage according to UL/CSA	-
Rated impulse voltage	18 kV
Rated current	20 A
Degree of pollution	3
Insulating material	Polyamid 6.6
Flammability class	UL 94 V-0
Temperature range	-40 – +120 °C

Description	Type	Part No.	P.U.
Accessories			
Crimping tool		95.101.0800.0	1
Crimping die	"B"	05.502.2100.0	1
Contact positioner	"1"	05.502.3100.0	1

Modular inserts revos FLEX

USB module

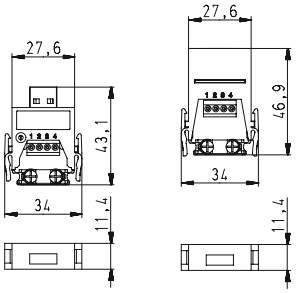
Profibus module

Description	Type	Part No.	P.U.
Modular inserts revos FLEX	**USB module**		
Male insert	FLE STK 4S 1.5 03 AU	78.111.0453.0	5
Female insert	FLE BUK 4S 1.5 03 AU	78.101.0453.0	5
Modular inserts revos FLEX	**Profibus module**		
Male insert	FLE STD 2S 1.5 03 AU	78.191.0453.0	5
Female insert	FLE BUD 2S 1.5 03 AU	78.181.0453.0	5

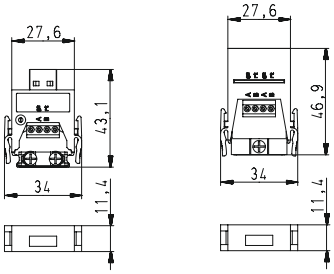
Technical data	
Rated voltage	30 V
Rated voltage according to UL/CSA	-
Conductor cross section	
USB module	0.8 – 1.5 mm^2 / 28 – 16 AWG
Profibus module	according to PROFIBUS DP regulations
Rated current	1 A
Number of poles	
USB module	4+screen
Profibus module	2+screen
Connection torques screen / PCB connector	0.5 Nm / 0.2 Nm
Data transmission rate	
USB module	12 MBit/s
Profibus module	1.5 MBit/s
Insulating material	Polycarbonate
Flammability class of insulating housing	UL 94 V-0
Temperature range	-20 – +85 °C

Dimensions

USB module



Profibus module

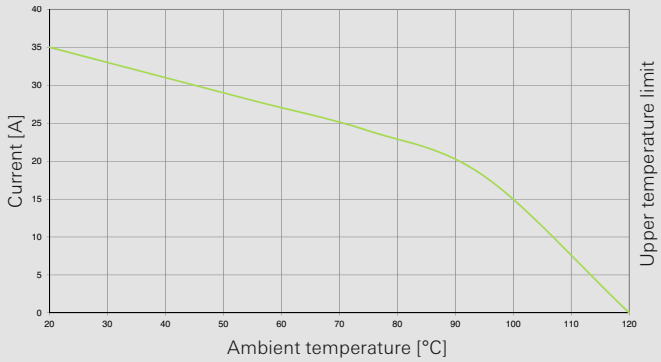


Derating curve

Derating curve according to IEC 60512 sec. 3

78.003/013.0253.0 revosFLEX 2-pole / revosFLEX COMPACT 1 M

Contact Ø 2.5 mm turned, 2.5 mm², 2-pole

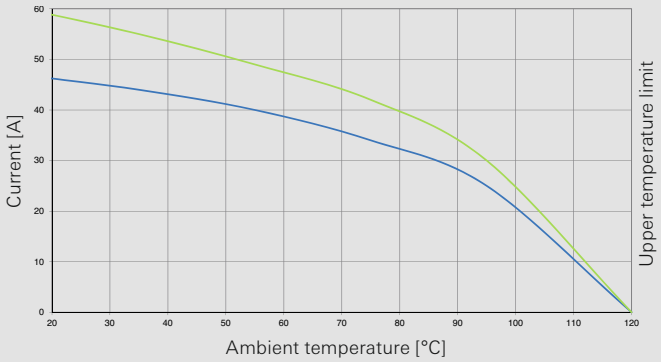


Derating curve according to IEC 60512 sec. 3

78.004/014.0353.0 revosFLEX 3-pole / revosFLEX COMPACT 1 M

Contact Ø 3.6 mm turned, 6.0 mm², 3-pole

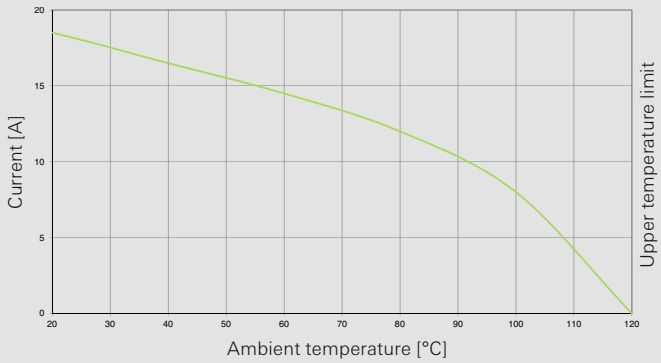
Contact Ø 3.6 mm turned, 10 mm², 3-pole



Derating curve according to IEC 60512 sec. 3

78.003/013.0453.0 revosFLEX 4-pole / revosFLEX COMPACT 1 M

Contact Ø 2.5 mm stamped, 1.5 mm², 4-pole

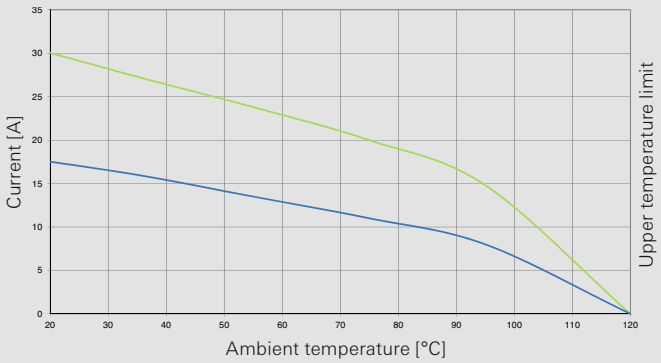


Derating curve according to IEC 60512 sec. 3

78.003/013.0553.0 revosFLEX 5-pole / revosFLEX COMPACT 1 M

Contact Ø 2.5 mm turned, 1.0 mm², 5-pole

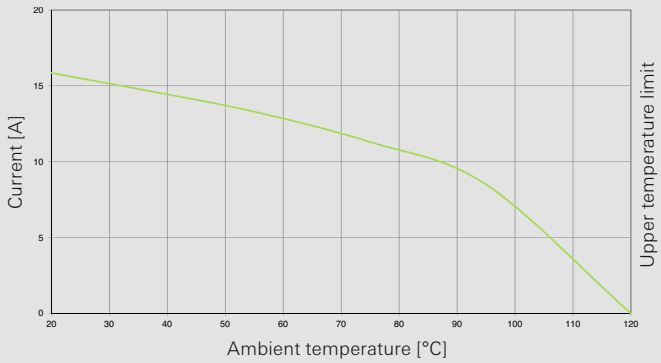
Contact Ø 2.5 mm turned, 2.5 mm², 5-pole



Derating curve according to IEC 60512 sec. 3

78.002/012.1053.0 revosFLEX 10-pole / revosFLEX COMPACT 1 M

Contact Ø 1.6 mm turned, 1.0 mm², 10-pole

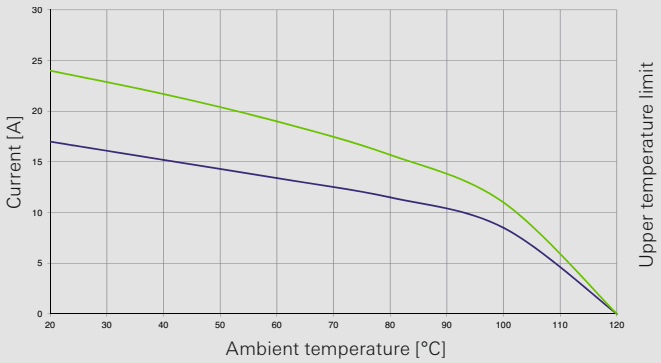


Derating curve according to IEC 60512 sec. 3

revosFLEX Spring clamp module 78.203/213.0453.0 / revosFLEX COMPACT 1 M

Ø 1.0 mm², 4-pole

Ø 2.5 mm², 4-pole



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