IN2CONNECT
ELECTRONIC CONNECTORS

WEiPU® Connector

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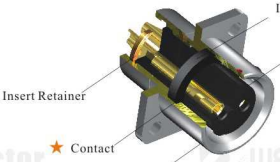
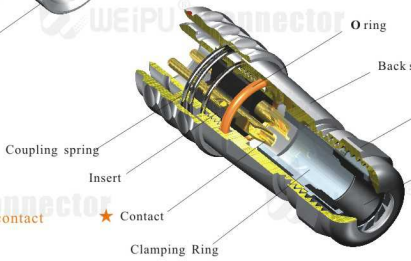
● SF12 IP67 Push-pull coupling





★ Each side can be male or female contact

Material and spec

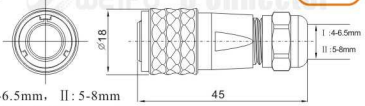
Coupling	PUSH-PULL
Shell material	Brass with chrome plating
Insert material	PPS max temperature 260 ℃ , fire resistance : V-0
Contact material	Brass with gold plating
Termination	Solder
Cable outer diameter range	I : 4-6.5mm II : 5-8mm
IP rating	IP67
Mating cycle	>500
Temperature range	-40℃~+85℃
Insulation resistance MΩ	2000

SF 12

SF1210 / P_ _ SF1210 / S_ _

Cable connector

Mate with SF1211, SF1212, SF1213



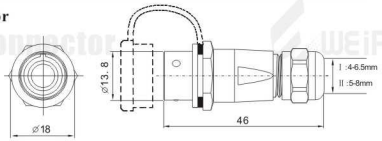
Cable outer diameter: I : 4-6.5mm, II : 5-8mm

Number of contact: 2. 3. 4. 5. 6. 7. 9

SF1211 / P_ _ SF1211 / S_ _

In-line cable connector

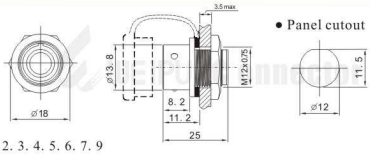
Mate with SF1210



SF1212 / P_ SF1212 / S_

Front mount

Mate with SF1210

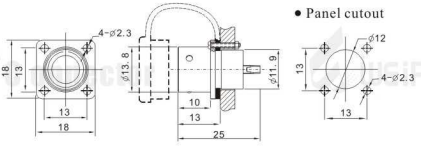


Number of contact: 2. 3. 4. 5. 6. 7. 9

SF1213 / P_ SF1213 / S_

Square flange

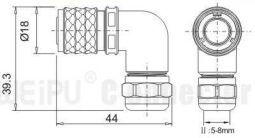
Mate with SF1210



SF1214 / P_ II SF1214 / S_ II

Angled cable connector

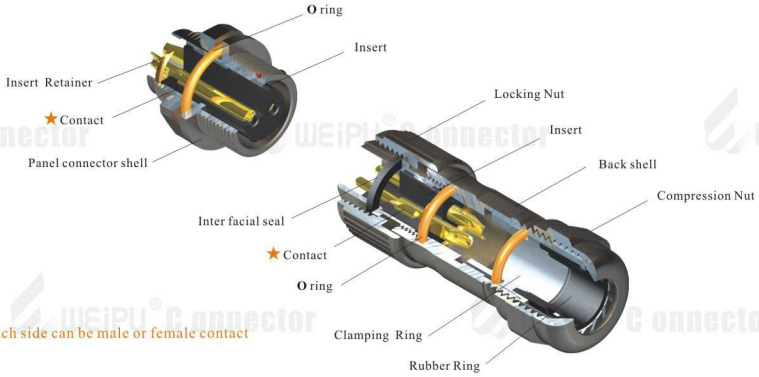
Mate with SF1211、SF1212、SF1213



Contact arrangement and spec for solder termination

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13A	13A	5A	5A	5A	5A	3A
Contact diameter	∅ 1. 6X2	∅1. 6X3	∅ 1X4	∅1X5	∅ 1X6	∅ 1X7	∅ 07X9
Rated voltage (AC.V)	250V	250V	200V	180V	125V	125V	125V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1000V	1000V	1000V	1000V
Contact resistance mΩ	2	2	5	5	5	5	10
Wire size mm^2/AWG	≤2/14	≤2/14	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18

● ST12 IP67 Threaded coupling



★ Each side can be male or female contact

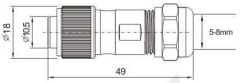
Material and spec

Coupling	Threaded coupling
Shell material	Zinc alloy with black nickel plating
Insert material	PPS max temperature 260 ℃ , fire resistance : V-0
Contact material	Brass with gold plating
Termination	Solder
Cable outer diameter range	5-8mm
IP rating	IP67
Mating cycle	>500
Temperature range	-40℃~+85℃
Insulation resistance MΩ	2000

ST1210 / P__ ST1210 / S__

Cable connector

Mate with ST1211, ST1212, ST1213

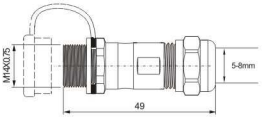


Number of contact: 2. 3. 4. 5. 6. 7. 9

ST1211 / P__ ST1211 / S__

In-line cable connector

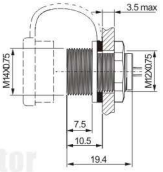
Mate with ST1210



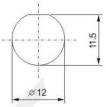
ST1212 / P__ ST1212 / S__

Front mount

Mate with ST1210



• Panel cutout

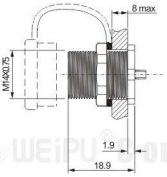


Number of contact: 2. 3. 4. 5. 6. 7. 9

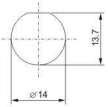
ST1213 / P__ ST1213 / S__

Rear mount

Mate with ST1210



• Panel cutout

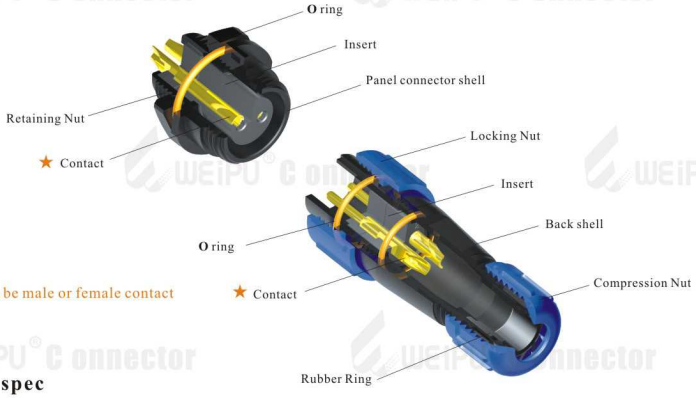


● Angled cable connector available (see page 2)

Contact arrangement and spec for solder termination

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13A	13A	5A	5A	5A	5A	3A
Contact diameter	∅ 1. 6X2	∅1. 6X3	∅ 1X4	∅1X5	∅ 1X6	∅ 1X7	∅ 07X9
Rated voltage (AC.V)	250V	250V	200V	180V	125V	125V	125V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1000V	1000V	1000V	1000V
Contact resistance mΩ	2	2	5	5	5	5	10
Wire size mm^2/AWG	≤2/14	≤2/14	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18

● SP13/SP17/SP21 IP68 Threaded coupling



★ Each side can be male or female contact

Material and spec

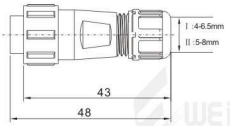
Product type	Connector	Overmolded Cable Assemblies
Coupling	Threaded coupling	Threaded coupling
Shell material	Nylon66， fire resistance : V-0	PC、PVC， fire resistance:V-0; Locking nut material: Anodized aluminum
Insert material	PPS max temperature 260 ℃， fire resistance : V-0	PPS max temperature 260 ℃， fire resistance : V-0
Contact material	Brass with gold plating	Brass with gold plating
Termination	SP13: solder，SP17: solder/crimp，SP21: solder / screw/crimp	
Cable outer diameter range	SP13 Ⅰ: 4-6.5mm SP13 Ⅱ: 5-8mm SP17 : 6-10mm SP21 Ⅰ: 4.5-7mm SP21 Ⅱ:7-12mm	
IP rating	IP68	IP66
Mating cycle	>500	>500
Temperature range	-25℃~+85℃	-20℃~+85℃
Insulation resistance MΩ	2000	2000

SP1310 / P_ _ _

SP1310 / S_ _ _

Cable connector

Mate with SP1311, SP1312



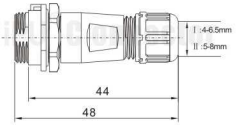
C: with cap, N: without cap
Cable outer diameter: Ⅰ: 4-6.5mm , Ⅱ:5-8mm
Number of contact: 2. 3. 4. 5. 6. 7. 9

SP1311 / P_ _ _

SP1311 / S_ _ _

In-line cable connector

Mate with SP1310

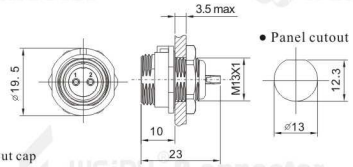


SP1312 / P_ _

SP1312 / S_ _

Front mount

Mate with SP1310



C: with cap, N: without cap
Number of contact: 2. 3. 4. 5. 6. 7. 9

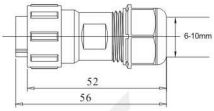
Contact arrangement and spec for solder termination

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13A	13A	5A	5A	5A	5A	3A
Contact diameter	∅ 1. 6X2	∅1. 6X3	∅ 1X4	∅1X5	∅1X6	∅ 1X7	∅ 0.7X9
Rated voltage (AC.V)	250V	250V	200V	180V	125V	125V	125V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1000V	1000V	1000V	1000V
Contact resistance mΩ	2	2	5	5	5	5	10
Wire size mm^2/AWG	≤2/14	≤2/14	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18

SP1710 / P _ – _ _ SP1710 / S _ – _ _

Cable connector

Mate with SP1711,SP1712



C: with cap, N: without cap

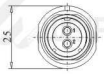
1:solder, 3:crimp

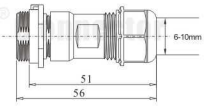
Number of contact: 2. 3. 4. 5. 7. 9.10

SP1711 / P _ – _ _ SP1711 / S _ – _ _

In-line cable connector

Mate with SP1710

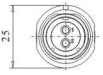


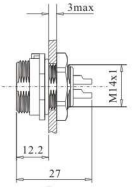


SP1712 / P _ – _ _ SP1712 / S _ – _ _

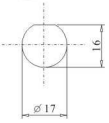
Front mount

Mate with SP1710





● Panel cutout



C: with cap, N: without cap

1:solder, 3:crimp

Number of contact: 2. 3. 4. 5. 7. 9.10

Contact arrangement and spec for solder

★For crimp spec see P49-P52

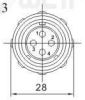
Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10A	10A	5A	5A	5A	5A	5A
Contact diameter	∅ 1.5X2	∅ 1.5X3	∅ 1X4	∅1X5	∅ 1X7	∅ 1X9	∅ 1X10
Rated voltage (AC.V)	500V	500V	500V	500V	400V	400V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1200V	1200V	1200V
Contact resistance mΩ	2.5	2.5	5	5	5	5	5
Wire size mm^2/AWG	≤ 2/14	≤ 2/14	≤ 0.785/18	≤ 0.785/18	≤ 0.785/18	≤ 0.785/18	≤0.785/18

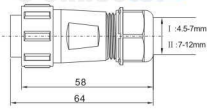
SP 21

SP2110 / P_ _ _ _ _ SP2110 / S _ _ _ _ _

Cable connector

Mate with SP2111,SP2112,SP2113





C: with cap, N: without cap

1:solder, 2:screw, 3:crimp

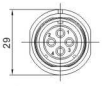
Cable outer diameter Ⅰ: 4.5-7mm, Ⅱ:7-12 mm

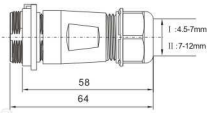
Number of contact: 2.3.4.5.5B.5C.7.8.9.12

SP2111 / P_ _ _ _ _ SP2111 / S _ _ _ _ _

In-line cable connector

Mate with SP2110

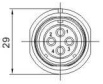


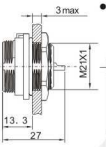


SP2112 / P _ _ _ _ SP2112 / S _ _ _ _

Front mount

Mate with SP2110

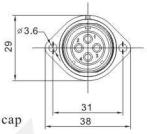


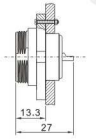


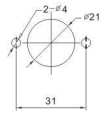
SP2113 / P _ _ _ _ SP2113 / S _ _ _ _

2-hole flange

Mate with SP2110







C: with cap, N: without cap

1:solder, 2:screw, 3:crimp

Number of contact: 2.3.4.5.5B.5C.7.8.9.12

Contact arrangement and spec for solder/screw

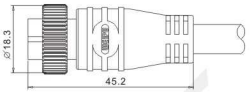
★For crimp spec see P49-P52

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30A	30A	30A	30A	5A、30A	15A	15A	5A	5A
Contact diameter	∅3X2	∅3X3	∅3X4	∅3X5	∅1X3 ∅3X2	∅2X5	∅2X7	∅1X9	∅1X12
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	1	5、1	2.5	2.5	5	5
Wire size mm /AWG	≤4.17/11	≤4.17/11	≤4.17/11	≤4.17/11	≤0. 785/18 ≤4.17/11	≤2/14	≤2/14	≤0. 785/18	≤0. 785/18

Overmolded Cable Assemblies: SP13 Series IP66

Single ended plug assembly

Mate with SP1311,SP1312,SP1315

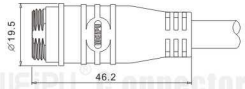


SP1314 / P— **SP1314 / S—**

Number of contact: 2. 3. 4. 5. 6. 7. 9

Single ended in-line receptacle assembly

Mate with SP1310,SP1314



SP1315 / P— **SP1315 / S—**

Double ended extension assembly -plug & receptacle

SP1314 /— + SP1315 /— —

Double ended plug assembly -plug & plug

SP1314 /— + SP1314 /— —

Double ended in-line receptacle assembly -receptacle & receptacle

SP1315 /— + SP1315 /— —

Number of contact: 2. 3. 4. 5. 6. 7. 9

P:male contact S:female contact

The plugs and receptacles are available with male contact or female contact

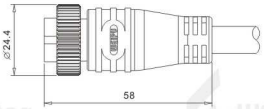
Contact arrangement and spec

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	8A	8A	4A	4A	4A	4A	1.6A
Contact diameter	∅ 1. 6X2	∅1. 6X3	∅ 1X4	∅1X5	∅ 1X6	∅ 1X7	∅ 07X9
Rated voltage (AC.V)	250V	250V	200V	180V	125V	125V	125V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1000V	1000V	1000V	1000V
Contact resistance mΩ	2	2	5	5	5	5	10
Wire size mm^2/AWG	≤1/17	≤1/17	≤ 0.5/20	≤0.5/20	≤0.5/20	≤ 0.5/20	≤ 0.2/24
Wire Color	1- black	2- white	3- red	4- yellow	5- green	6- brown	7- blue	8- orange	9- purple

Overmolded Cable Assemblies: SP17 Series IP66

Single ended plug assembly

Mate with SP1711,SP1712,SP1715

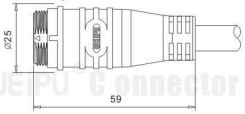


SP1714 / P__ SP1714 / S__

Number of contact: 2. 3. 4. 5. 7. 9. 10

Single ended in-line receptacle assembly

Mate with SP1710,SP1714



SP1715 / P__ SP1715 / S__

Double ended extension assembly
-plug & receptacle

SP1714 /__ + SP1715 /__ __

Double ended plug assembly
-plug & plug

SP1714 /__ + SP1714 /__ __

Double ended in-line receptacle assembly
-receptacle & receptacle

SP1715 /__ + SP1715 /__ __

Number of contact: 2. 3. 4. 5. 7. 9. 10

P:male contact S:female contact

The plugs and receptacles are available with male contact or female contact

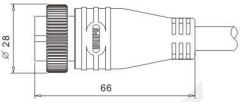
Contact arrangement and spec

Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10A	10A	4A	4A	4A	4A	5A
Contact diameter	∅1.5X2	∅1.5X3	∅ 1X4	∅1X5	∅ 1X7	∅ 1X9	∅ 1X10
Rated voltage (AC.V)	500V	500V	500V	500V	400V	400V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1200V	1200V	1200V
Contact resistance mΩ	2.5	2.5	5	5	5	5	5
Wire size mm^2/AWG	⩽1. 5/15	⩽1. 5/15	⩽0.5/20	⩽ 0.5/20	⩽ 0.5/20	⩽ 0.5/20	⩽0.785/18
Wire Color	1- black	2- white	3- red	4- yellow	5- green	6- brown	7- blue	8- orange	9- purple

Overmolded Cable Assemblies: SP21 Series IP66

Single ended plug assembly

Mate with SP2111,SP2112, SP2113,SP2115

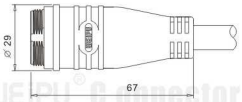


SP2114 / P— SP2114 / S—

Number of contact: 2. 3. 4. 5. 5B.6.7. 9.12

Single ended in-line receptacle assembly

Mate with SP2110,SP2114



SP2115 / P— SP2115 / S—

Double ended extension assembly -plug & receptacle

SP2114 /— + SP2115 /— —

Double ended plug assembly -plug & plug

SP2114 /— + SP2114 /— —

Double ended in-line receptacle assembly -receptacle & receptacle

SP2115 /— + SP2115 /— —

Number of contact: 2.3.4.5.5B.5C.7.9.12

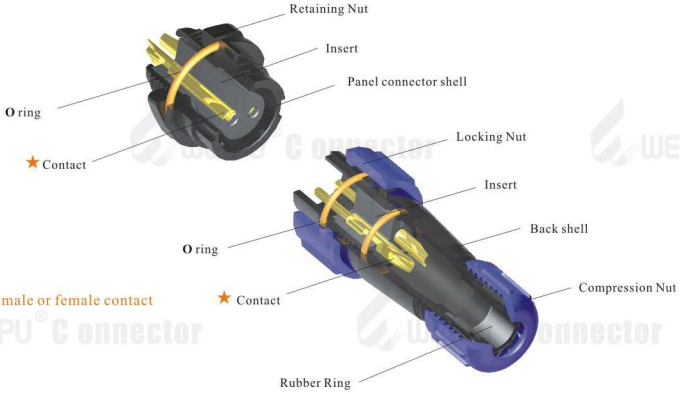
P:male contact S:female contact

The plugs and receptacles are available with male contact or female contact

Contact arrangement and spec

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	20A	20A	20A	20A	4A. 20A	15A	12A	4A	4A
Contact diameter	∅ 3X2	∅ 3X3	∅ 3X4	∅ 3X5	∅ 1X3 ∅ 3X2	∅ 2X5	∅ 2X7	∅ 1X9	∅ 1X12
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	1	5.1	2.5	2.5	5	5
Wire size mm^2/AWG	≤2.5	≤2.5	≤2.5	≤2.5	≤0.5 ≤2.5	≤2/14	≤1.5	≤0.5	≤0.5
Wire Color	1- black 2- white 3- red		4- yellow 5- green 6- brown		7- blue	8-orange	9- purple 10- grey	11- pink	12- light green

SY13/SY17/SY21 IP67 Bayonet Coupling



★ Each side can be male or female contact

Material and spec

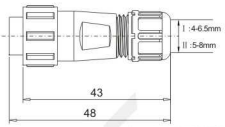
Coupling	Bayonet
Shell material	Nylon66 , fire resistance : V-0
Insert material	PPS max temperature 260 ℃ , fire resistance : V-0
Contact material	Brass with gold plating
Termination	SY13:solder, SY17:solder/ crimp, SY21:solder / screw / crimp
Cable outer diameter range	SY13Ⅰ: 4-6.5mm SY13Ⅱ:5-8mm , SY17:6-10mm , SY21Ⅰ: 4.5-7mm SY21Ⅱ:7-12mm
IP rating	IP67
Mating cycle	>500
Temperature range	-25℃~+85℃
Insulation resistance MΩ	2000

SY13 Series IP67 solder termination

SY 13

Cable connector

Mate with SY1311,SY1312

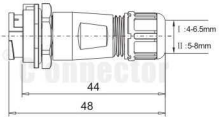


SY1310 / P_ _ _ SY1310 / S_ _ _

- C: with cap, N: without cap
- Cable outer diameter : Ⅰ: 4-6.5mm, Ⅱ:5-8mm
- Number of contact: 2. 3. 4. 5. 6. 7. 9

In-line cable connector

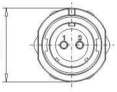
Mate with SY1310

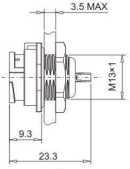


SY1311 / P_ _ _ SY1311 / S_ _ _

Front mount

Mate with SY1310





● Panel cutout

SY1312 / P_ _ SY1312 / S_ _

- C: with cap, N: without cap
- Number of contact: 2. 3. 4. 5. 6. 7. 9

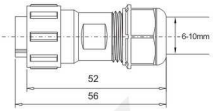
Contact arrangement and spec for solder termination

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13A	13A	5A	5A	5A	5A	3A
Contact diameter	∅ 1. 6X2	∅1. 6X3	∅ 1X4	∅1X5	∅1X6	∅ 1X7	∅ 0.7X9
Rated voltage (AC.V)	250V	250V	200V	180V	125V	125V	125V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1000V	1000V	1000V	1000V
Contact resistance mΩ	2	2	5	5	5	5	10
Wire size mm^2/AWG	≤2/14	≤2/14	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18	≤0. 785/18

SY17 Series IP67 solder/crimp termination

Cable connector

Mate with SY1711,SY1712

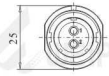


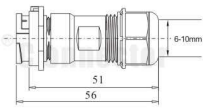
SY1710 / P_–_ _ SY1710 / S_–_ _

- C: with cap, N: without cap
- 1:solder, 3:crimp
- Number of contact: 2. 3. 4. 5. 7. 9. 10

In-line cable connector

Mate with SY1710

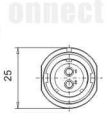


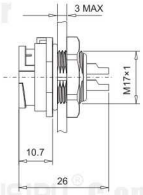


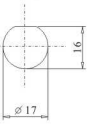
SY1711 / P _–_ _ SY1711 / S_–_ _

Front mount

Mate with SY1710







SY1712 / P _–_ _ SY1712 / S_–_ _

- C: with cap, N: without cap
- 1:solder, 3:crimp
- Number of contact: 2. 3. 4. 5. 7. 9.10

Contact arrangement and spec for solder termination

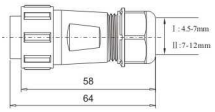
★For crimp spec see P49-P52

Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10A	10A	5A	5A	5A	5A	5A
Contact diameter	∅1.5X2	∅1.5X3	∅ 1X4	∅1X5	∅1X7	∅ 1X9	∅ 1X10
Rated voltage (AC.V)	500V	500V	500V	500V	400V	400V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1200V	1200V	1200V
Contact resistance mΩ	2.5	2.5	5	5	5	5	5
Wire size mm^2/AWG	≤ 2/14	≤ 2/14	≤ 0.785/18	≤ 0.785/18	≤ 0.785/18	≤ 0.785/18	≤0.785/18

SY21 Series IP67 solder/screw/crimp termination

Cable connector

Mate with SY2111,SY2112,SY2113

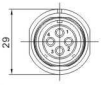


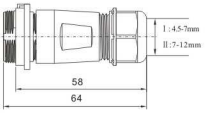
SY2110 / P_ _–_ _ SY2110 / S_ _–_ _

- C: with cap, N: without cap
- 1:solder, 2:screw, 3:crimp
- Cable outer diameter: Ⅰ:4.5-7mm, Ⅱ:7-12mm
- Number of contact: 2.3.4.5.5B.5C.7.8.9.12

In-line cable connector

Mate with SY2110

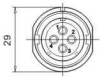


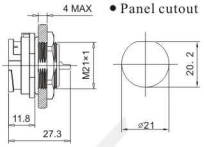


SY2111 / P_ _–_ _ SY2111 / S_ _–_ _

Front mount

Mate with SY2110

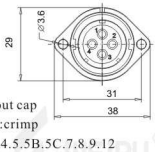


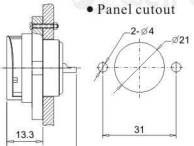


SY2112 / P_–_ _ SY2112 / S _–_ _

2-hole flange

Mate with SY2110





SY2113 / P_–_ _ SY2113 / S _–_ _

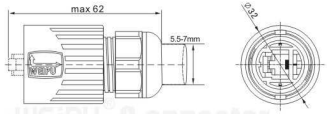
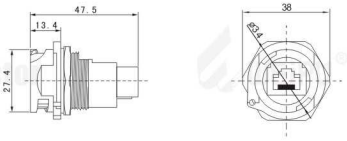
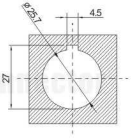
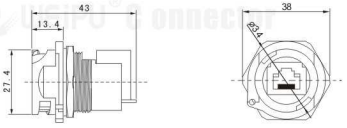
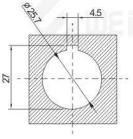
- C: with cap, N: without cap
- 1:solder, 2:screw, 3:crimp
- Number of contact: 2.3.4.5.5B.5C.7.8.9.12

Contact arrangement and spec for solder/screw termination

★For crimp spec see P49-P52

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30A	30A	30A	30A	5A、30A	15A	15A	5A	5A
Contact diameter	∅3X2	∅3X3	∅3X4	∅3X5	∅1X3 ∅3X2	∅2X5	∅2X7	∅1X9	∅1X12
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	1	5、1	2.5	2.5	5	5
Wire size mm^2/AWG	≤4.17/11	≤4.17/11	≤4.17/11	≤4.17/11	≤0.785/18 ≤4.17/11	≤2/14	≤2/14	≤0.785/18	≤0.785/18

- **RJ45F Series IP67**
  Bayonet Coupling, Shell material : PC, fire resistance: V-0

Part number	Drawing and description	Panel cutout
RJ45F6	Plug , Cable outer diameter 5.5-7mm 	
RJ45F71	Socket 	
RJ45F71RA		

WEiPU®

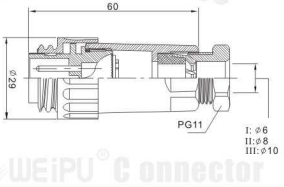
IP67

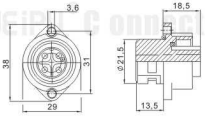
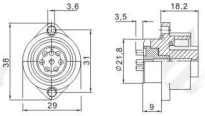
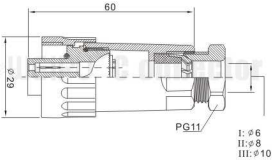
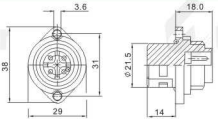
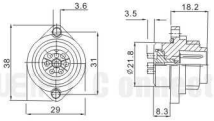
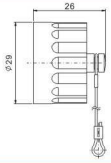
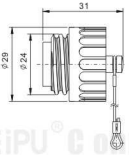
WA 22

WA22 Series IP67 Material and spec

spec		
Number of contact	3+PE	6+PE
Termination	Screw	Solder
Wire size	Max2. 5mm^2/AWG14	Max0. 75mm^2/AWG18
Rated voltage (V)	400V	250V
Rated current(A)	16A	10A
Contact diameter	∅1.5X4	∅2X7
Shell material	Nylon66 , fire resistance : V-0	
Contact material	Brass with gold plating	
Cable outlet diameter	6 , 8, 10mm	
IP rating	IP67	
Mating cycle	>500	
Temperture range	-25℃ ~+85℃	
Insulation resistance MΩ	2000	
Test voltage(AC.V)1 min	2000V	
Contact resistance mΩ	2.5	

WA 22

Part number	Description	Drawing
WA22J4TE2	WA 22 male cable connector 3+PE , screw termination	
WA22J7TE1	WA 22 male cable connector 6+PE, solder termination	

Part number	Description	Drawing
WA22K4Z2	WA 22 female panel connector 3+PE, screw termination	
WA22K7Z1	WA 22 female panel connector 6+PE , solder termination	
WA22K4ZE2	WA 22 female cable connector 3+PE, screw termination	
WA22K7ZE1	WA 22 female cable connector 6+PE, solder termination	
WA22J4Z2	WA 22 male panel connector 3+PE, screw termination	
WA22J7Z1	WA 22 male panel connector 6+PE,solder termination	
WA22G1	Cap	
WA22G2	Cap	

WP20 Series

Part number system

WP 20 ☐ ☐ ☐ ☐ ☐

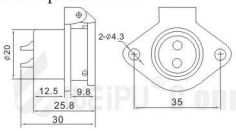
- Series code
- Panel-hole cutout diamter
- Contact gender
  J-male contact
  K-female contact
- Number of solder contact:
  2. 3. 4. 5. 5B. 6. 7. 9. 12
  Number of crimp contact:
  2.3.5.7.9
- Termination type:
  1. Solder
  2. Screw (available for ∅3mm contact)
  3. Crimp
- Cable-fix Type:
  O) - mechanical clamp with PVC sleeve
  K) - plastic clamping nut
  P) - metal hose
- Connector type:
  T– plug
  Z– receptacle

The plugs and receptacles are available with male contact or female contact

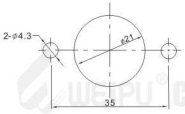
Material and spec

Coupling	Bayonet
Shell	Nylon PA66 and zinc alloy
Insert material	PPS max temperature 260 ℃ , fire resistance: V-0
Contact material	Brass with gold plating
Termination	2-5 contacts: solder / screw , 7-12 contacts: solder, crimp
Mating cycle	>500
Temperature range	-25℃～+85℃

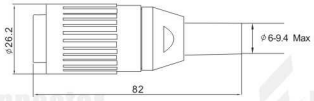
- Receptacle: Z IP44



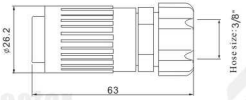
- Panel cutout



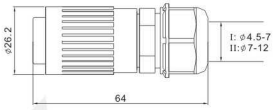
- Mechanical clamp with PVC sleeve : TO



- Metal hose: TP



- Plastic clamping nut : TK IP55



Contact arrangement and spec for solder/screw

★For crimp spec see P49-P52

Number of contact	2	3	4	5	5B	6	7	9	12
Male contact face view									
Rated current(A)	30A	30A	30A	30A	5A、30A	5A、30A	15A	5A	5A
Contact diameter	∅3X2	∅3X3	∅3X4	∅3X5	∅1X3 ∅3X2	∅1X4 ∅3X2	∅2X7	∅1X9	∅1X12
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	1	5、1	5、1	2.5	5	5
Insulation resistance mΩ	2000	2000	2000	2000	2000	2000	2000	2000	2000
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw		solder	solder	solder
Wire size mm2/AWG	≤4.17/11	≤4.17/11	≤4.17/11	≤4.17/11	≤0.785/18 ≤4.17/11	≤0. 785/18 ≤4.17/11	≤2/14	≤0. 785/18	≤0. 785/18

WS Series

Part number system

WS ☐ ☐ ☐ ☐ ☐ ☐

Series code

Panel-hole cutout diamter
16、20、24、28、32、40、48、55

Contact gender
J-male contact
K-female contact

Number of solder contact:
2、3、4、5、6、7、8、9、10、11、12、13、15、16、17、19、20、24、26、27、31、38、40、42、53、61

Number of crimp contact:
2、3、4、5、6、7、8、9、10、12、15、19、31、38、42、61

Termination type:
1. Solder
2. Screw (available for ∅5.5-∅ 10mm contact)
3. Crimp

Shell structure and cable fix type :

panel receptacle
- Z)- Square flange
- M)- Round flange
- G)- 2-hole flange

straight
- Q)- Mechanical clamp with PVC sleeve
- P)- Metal hose
- Y)- Mechanical clamp with PVC sleeve
- D)- Plastic hose

angled
- R)- Metal hose
- S)- Mechanical clamp with PVC sleeve
- C)- Plastic hose

Connector type:
T-plug
Z-receptacle

Remark: Rated current decreases according to the number of contacts
Rated current decrease rate form

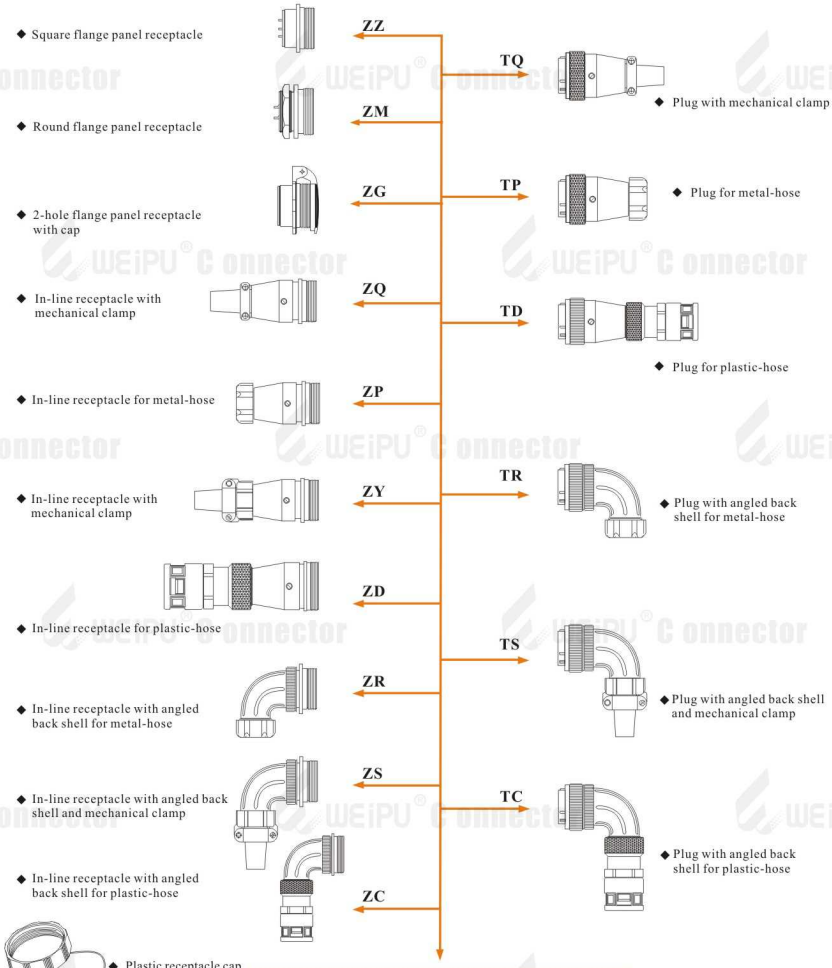
Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	above 51
Decrease rate %	0	10	20	30	40	50	60

The plugs and receptacles are available with male contact or female contact

Material and spec

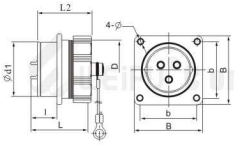
Coupling	Threaded coupling
Shell material	Zinc alloy with chrome plating
Insert material	PPS max temperature 260 ℃ , fire resistance: V-0
Contact material	Brass with gold plating
Termination	∅1-∅3.5mm Solder, ∅5.5-∅10mm screw , crimp
Mating cycle	>500
Temperature range	-40℃~+85℃
IP Rating	For indoor only

WS Series Mating diagram

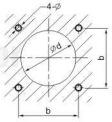


Each side can be male or female contact
★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

Square flange panel receptacle：ZZ



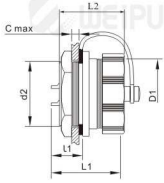
● Panel cutout

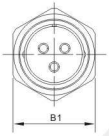


★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

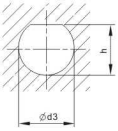
Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅d1	16	20	24	28	32	40	48	55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
l	13	14	15	15	18.6	20.5	20.5	20.5
L	26	28	28	28	38.2	39.7	39.7	39.7
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
∅d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
∅	3.5	3.5	3.5	3.5	3.5	4.5	4.5	4.5
L2	22	23	23	23	34	34	34	34

Round flange panel receptacle：ZM



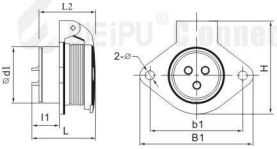


● Panel cutout

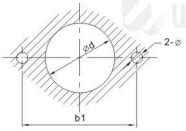


Dimension (mm)	WS16	WS20	WS24	WS28
d2	M16X1	M20X1	M24X1	M28X1
D1	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
L1	13	14	15	15
L1	26	28	28	28
B1	21	25	29	33
∅d3	16	20	24	28
h	15.4	19.4	23.2	26.9
L2	22	23	23	23

2-hole flange panel receptacle with cap：ZG



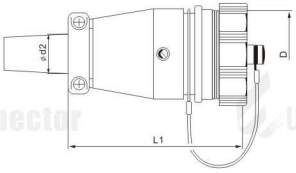
- Panel cutout



★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
∅d1	16	20	24	28	32	40	48	55
l1	13	14	15	15	18.1	20.5	20.5	20.5
L	30	32.3	32.3	32.3	42.2	42.2	42.2	43.2
b1	30	35	40	45	55	65	80	85
B1	38	44	50	55	67	77	92	98
H	32.5	33.5	40.5	45.5	52.5	63.5	74.5	80
∅	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5
L2	22	23	23	23	34	34	34	34

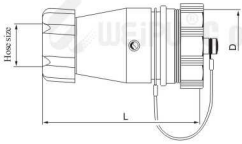
In-line receptacle with mechanical clamp：ZQ



Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L1	47.5	52	53	55	69	92	98	100
d2 Max	10	11.6	12.4	15.7	19.5	24	24	30

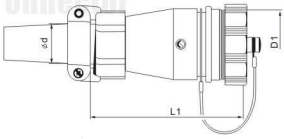
In-line receptacle for metal-hose：ZP

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



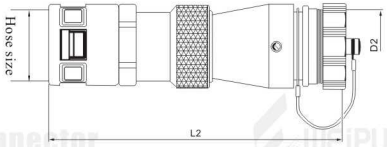
Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	53.5	58	59	61	75	99	103	106
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II:1¼″	1¼″

In-line receptacle with mechanical clamp：ZY



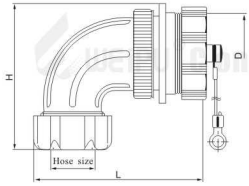
Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D1	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L1	52.3	59.2	67	70	89.2	94.8	101.8	124.7
⌀dMax	10	13	13	17	19	23	I: 23 II:31	31

In-line receptacle for plastic-hose：ZD



Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D2	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L2	80	90	97	104	126.7	134	141	160
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II:PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II:1¼″	1¼″

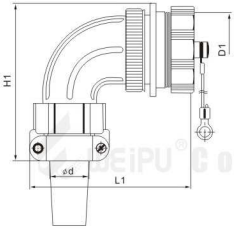
In-line receptacle with angled back shell for metal-hose：ZR



★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

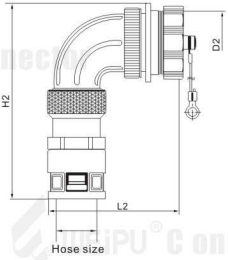
Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	——	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	——	60	60	63	81	88	96	107
H	——	48	51	52	58	70	82	90
Hose size	——	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

In-line receptacle with angled back shell and mechanical clamp：ZS



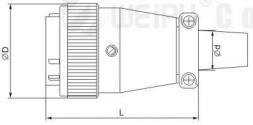
Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D1	——	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L1	——	60.6	60.4	64.7	82	89.2	96	114.2
H1	——	54.4	56.8	64	72	83.3	94.5	112.3
ød Max	——	13	13	17	19	23	23	31

In-line receptacle with angled back shell for plastic-hose：ZC



Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D2	——	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L2	——	60	60	65	82	90	95	110
H2	——	88	88	98	110	120	135	140
Adapter size	——	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	——	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

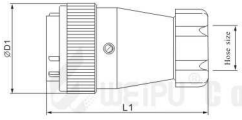
Plug with mechanical clamp： TQ



★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

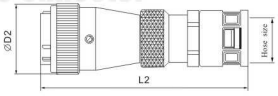
Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21	25.8	30.5	33.8	39.3	49.3	57	64.5
L	44.8	49.5	53.5	56	70	75.5	85.5	97
Ød Max	10	11.6	12.4	15.7	19.5	24	24	30

Plug for metal-hose： TP



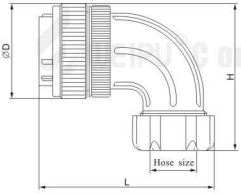
Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD1	21	25.8	30.5	33.8	39.3	49.3	57	64.5
L1	48	57	58	61	74	82	90	100
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

Plug for plastic-hose： TD



Dimension/mm	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD2	21	25.8	30.5	33. 8	39.3	49.3	57	64.5
L2	63	75	60	63	120	132	138	150
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

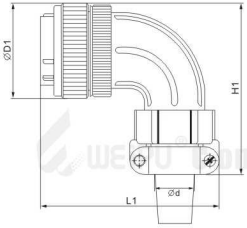
- Plug with angled back shell for metal-hose：TR



★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

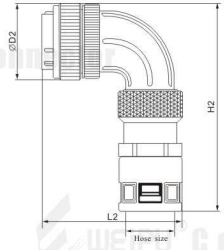
Dimension:mm		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	——	25.6	30	33.8	38.2	46.2	55.8	63
H	——	48	51	52	58	70	82	90
L	——	60	60	63	81	88	96	107
Hose size	——	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

- Plug with angled back shell and mechanical clamp：TS



Dimension:mm		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD1	——	25.6	30	33.8	38.2	46.2	55.8	63
H1	——	53	57	61	66	78	91	100
L1	——	60	61	64	80	88	96	107
Ød Max	——	11.6	12.4	15.7	19.5	24	24	30

- Plug with angled back shell for plastic-hose：TC



Dimension:mm		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD2	——	25.6	30	33.8	38.2	46.2	55.8	63
H2	——	60	62	65	82	88	96	107
L2	——	70	88	95	105	130	130	146
Adapter size	——	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	——	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

WF Series

Part number system

WF [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Series code

Panel-hole cutout diamter
16、20、24、28、32、40、48、55

Contact gender
J-male contact
K-female contact

Number of solder contact:
2、3、4、5、6、7、8、9、10、11、12、13、15、16、17、19、20、24、26、27、31、38、40、42、53、61
Number of crimp contact:
2、3、4、5、6、7、8、9、10、12、15、19、31、38、42、61

Termination type:
1. Solder
2. Screw (available for ∅5.5-∅10mm contact)
3. Crimp

Shell structure and cable fix type :

Panel receptacle
- Z) - Square flange
- M) - Round flange
- G) - 2-hole flange

Straight
- A) - Plastic clamping nut
- N) - Plastic hose
- E) - Metal clamping nut
- I) - Mechanical clamp with rubber sleeve

Angled
- U) - Metal clamping nut
- V) - Mechanical clamp with rubber sleeve
- W) - Plastic hose

Connector type:
T-plug
Z-receptacle

Remark: Rated current decreases according to the number of contacts
Rated current decrease rate form

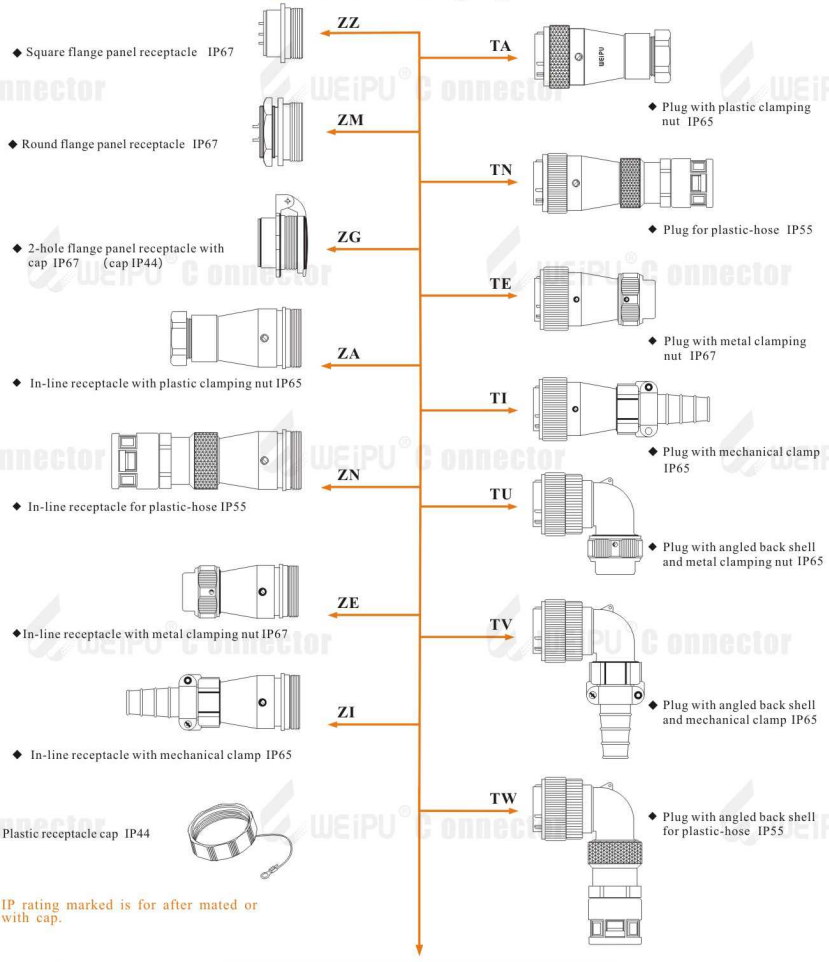
Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	above 51
Decrease rate %	0	10	20	30	40	50	60

The plugs and receptacles are available with male contact or female contact

Material and spec

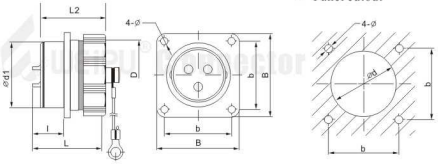
Coupling	Threaded coupling
Shell	Zinc alloy with chrome plating
Insert material	PPS max temperature 260 ℃, fire resistance: V-0
Contact material	Brass with gold plating
Termination	∅1-∅ 3.5mm Solder, ∅ 5.5-∅10mm screw, crimp
Mating cycle	>500
Temperature range	-40℃~+85℃

WF Series Mating diagram



Each side can be male or female contact
★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

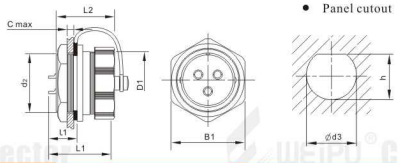
Square flange panel receptacle ： ZZ IP67



★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

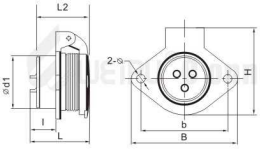
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
Ød1	16	20	24	28	32	40	48	55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
l	13	14	15	15	18.6	20.5	20.5	20.5
L	26	28	28	28	38.2	39.7	39.7	39.7
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
Ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
Ø	3.5	3.5	3.5	3.5	3.5	4.5	4.5	4.5
L2	22	23	23	23	34	34	34	34

Round flange panel receptacle: ZM IP67

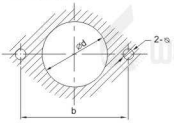


Dimension(mm)	WF16	WF20	WF24	WF28
d2	M16X1	M20X1	M24X1	M28X1
D1	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
L1	13	14	15	15
L1	26	28	28	28
B1	21	25	29	33
Ød3	16	20	24	28
h	15.4	19.4	23.2	26.9
L2	22	23	23	23

- 2-hole flange panel receptacle with cap ： ZG IP67(cap IP44)



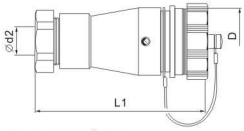
- Panel cutout



★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

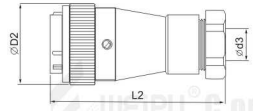
Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ød1	16	20	24	28	32	40	48	55
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
l	13	14	15	15	18.1	20.5	20.5	20.5
L	30	32.3	32.3	32.3	42.2	42.2	42.2	43.2
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
H	32.5	33.5	40.5	45.5	52.5	63.5	74.5	80
ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5
L2	22	23	23	23	34	34	34	34

- In-line receptacle with plastic clamping nut: ZA IP65



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L1	59	68	69	76	92	109	116	110
ød2	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31

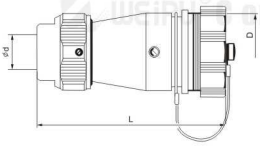
- Plug with plastic clamping nut: TA IP65



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD2	21	25.6	30	33.8	38.2	46.2	55.8	63
L2	54	65	68	73	90	101	102	107
ød3	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31

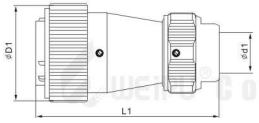
In-line receptacle with metal clamping nut: ZE IP67

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



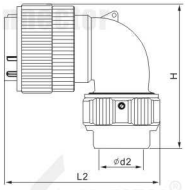
Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	53.6	61	67.6	68.2	90.4	103.6	108	131.6
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 II:24.5-26	24.5-26

Plug with metal clamping nut: TE IP67



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD1	21	25.6	30	33.8	38.2	46.2	55.8	63
L1	52.6	61.3	67.3	67.4	88	102.9	107.7	131.6
ød1	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 II:24.5-26	24.5-26

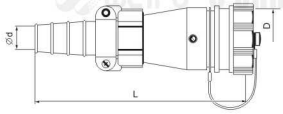
Plug with angled back shell and metal clamping nut: TU IP65



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	43.2	50.3	54	56.7	74.6	80	98	105.2
L2	47.5	55	58.3	72	82.5	91.5	98.5	109.2
ød2	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	18-20	24.5-26

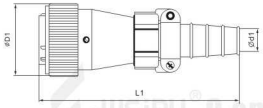
In-line receptacle with mechanical clamp： ZI IP65

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



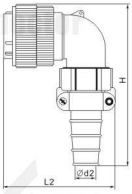
Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	73	85.7	92	101	118.6	130.2	137	210.5
ød	7-8	8-10. 5	8-10. 5	11.5-13.6	13-15.6	15.5-18.8	I:15-18.8 II:24-28	24-28

Plug with mechanical clamp: TI IP65



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD1	21	25.6	30	33.8	38.2	46.2	55.8	63
L1	72.3	86.9	92.5	100.6	118.3	130.4	137.2	161.1
ød1	7-8	8-10. 5	8-10. 5	11.5-13.6	13-15.6	15.5-18.8	I:15-18.8 II:24-28	24-28

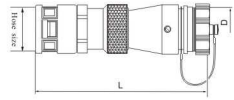
Plug with angled back shell and mechanical clamp: TV IP65



Dimension:mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	60	80	80	93	107	118	127	140
L2	45.5	53	56.3	70	80.5	89.5	98	107.2
ød2	7-8	8-10. 5	8-10. 5	11.5-13.6	13-15.6	15.5-18.8	15.5-18.8	24-28

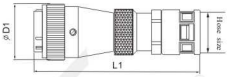
In-line receptacle for plastic-hose: ZN IP55

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



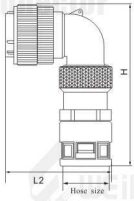
Dimension/mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	80	90	97	104	126.7	134	141	160
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

Plug for plastic-hose: TN IP55



Dimension/mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD1	21	25.6	30	33.8	38.2	46.2	55.8	63
L1	63	75	60	63	120	132	138	150
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

Plug with right angle back shell for plastic-hose: TW IP55



Dimension/mm	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	58	78	78	91	105	120	125	132
L2	46.5	54	57.3	71	81.5	90.5	98	108
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

WY Series IP44-IP67

Part number system

WY ☐ ☐ ☐ ☐ ☐ ☐ ☐

Series code

Panel-hole cutout diamter
16、20、24、28、32、40、48、55

Contact gender
J-Male contact
K-Female contact

Number of solder contact:
2、3、4、5、6、7、8、9、10、11、12、13、15、16、17、19、20、24、26、27、31、38、40、42、53、61
Number of crimp contact:
2、3、4、5、6、7、8、9、10、12、15、19、31、38、42、61

Termination type:
1. Solder
2. Screw (available for ∅5.5-∅10mm contact)
3. Crimp

Shell structure and cable fix type:
- Panel receptacle:
  - Z) - Square flange
  - M) - Round flange
  - G) - 2-hole flange
- Straight:
  - E) - Metal clamping nut
  - I) - Mechanical clamp with rubber sleeve
  - B) - Plastic hose
- Angled:
  - U) - Metal clamping nut
  - V) - Mechanical clamp with rubber sleeve
  - W) - Plastic hose

Connector type:
T-plug
Z-receptacle

Remark: Rated current decreases according to the number of contacts
Rated current decrease rate form

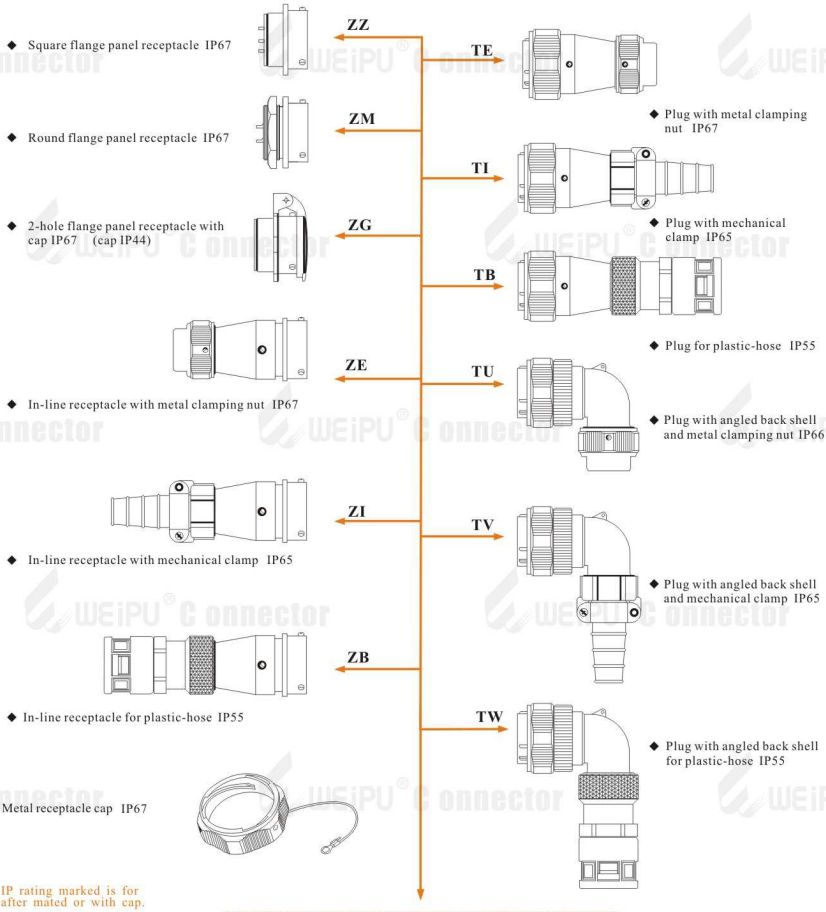
Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	above 51
Decrease rate %	0	10	20	30	40	50	60

The plugs and receptacles are available with male contact or female contact

Material and spec

Coupling	Bayonet
Shell	Zinc alloy with chrome plating
Insert material	PPS Temperature 260℃, fire resistance: V-0
Contact material	Brass with gold plating
Termination	∅1-∅3.5mm Solder, ∅5.5-∅10mm screw, crimp
Mating cycle	>500
Temperature range	-40℃~+85℃

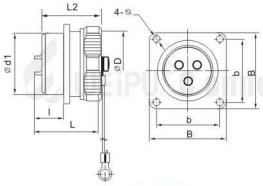
WY Series Mating diagram

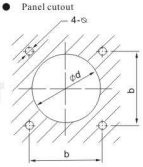


★ IP rating marked is for after mated or with cap.

Each side can be male or female contact
★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52

Square flange panel receptacle ：ZZ IP67

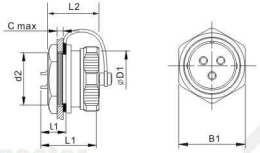


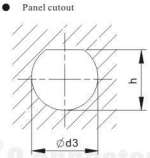


★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
⌀d1	16	20	24	28	32	40	48	55
⌀D	18	22	26	30	35	44	52	59
l	13	14	15	15	18.6	20.5	20.5	20.5
L	26	28	28	28	38.2	39.7	39.7	39.7
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
⌀d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
⌀	3.5	3.5	3.5	3.5	3.5	4.5	4.5	4.5
L2	22	23	23	23	34	34	34	34

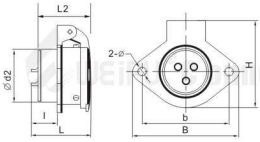
Round flange panel receptacle ：ZM IP67



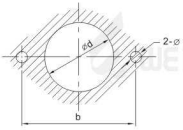


Dimension(mm)	WY16	WY20	WY24	WY28
d2	M16X1	M20X1	M24X1	M28X1
⌀D1	18	22	26	30
C	5	5	5	5
l1	13	14	15	16
L1	26	28	28	28
B1	21	25	29	33
⌀d3	16.5	20.5	24.5	28.5
h	15.4	19.4	23.2	26.9
L2	22	23	23	23

- 2-hole flange panel receptacle with cap : ZG IP67(cap IP44)

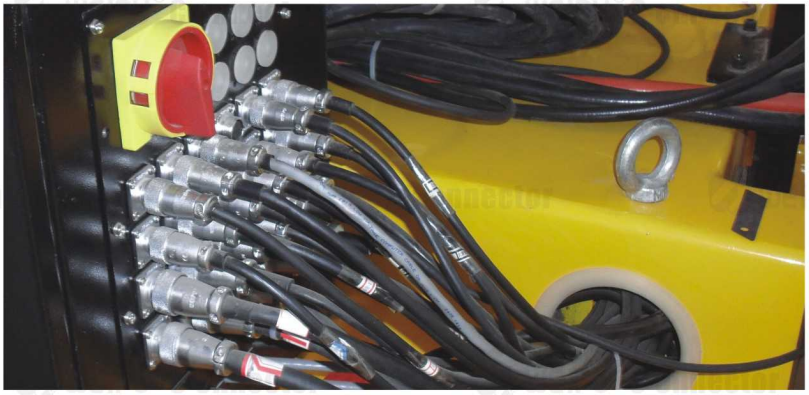


● Panel cutout



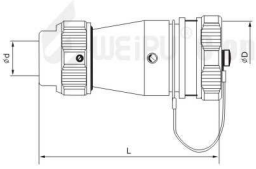
★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
Ød2	16	20	24	28	32	40	48	55
Ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
l	13	14	15	15	18.1	20.5	20.5	20.5
L	30	32.3	32.3	32.3	42.2	42.2	42.2	43.2
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
H	32.5	33.5	40.5	45.5	52.5	63.5	74.5	80
Ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5
L2	22	23	23	23	34	34	34	34



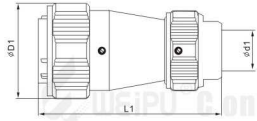
- In-line receptacle with metal clamping nut： ZE IP67

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



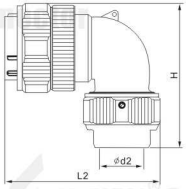
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
øD	18	22	26	30	35	44	52	59
L	53.6	61	67.6	68.2	90.4	103.6	108	131.6
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 II:24.5-26	24.5-26

- Plug with metal clamping nut：TE IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
øD1	25	30	34	38.5	44.5	54	62	68.5
L1	52.6	61.3	67.3	67.4	88	102.9	107.7	131.1
ød1	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 II:24.5-26	24.5-26

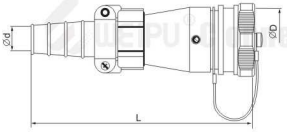
- Plug with angled back shell and metal clamping nut：TU IP66



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
H	43.2	50.3	54	56.7	74.6	80	98	105.2
L2	47.5	55	58.3	72	82.5	91.5	98.5	109.2
ød2	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	18-20	24.5-26

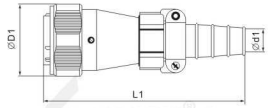
In-line receptacle with mechanical clamp：ZI IP65

★ Solder contact arrangement and spec see P47-P48
★ Crimp contact arrangement and spec see P49-P52



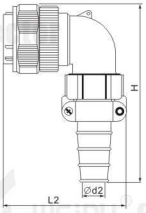
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
ØD	18	22	26	30	35	44	52	59
L	73	85.7	92	101	118.6	130.2	137	210.5
Ød	7-8	9-10.5	9-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15-18.8 II:24-28	24-28

Plug with mechanical clamp：TI IP65



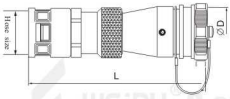
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
ØD1	25	30	34	38.5	44.5	54	62	68.5
L1	72.3	86.9	92.5	100.6	118.3	130.4	137.2	161.1
Ød1	7-8	9-10.5	9-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15-18.8 II:24-28	24-28

Plug with angled back shell and mechanical clamp：TV IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
H	60	80	80	93	107	118	127	140
L2	45.5	53	56.3	70	80.5	89.5	98	107.2
Ød2	7-8	9-10.5	9-10.5	11.5-13.6	13-15.6	15.5-18.8	15.5-18.8	24-28

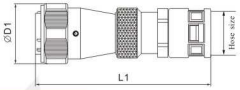
In-line receptacle for plastic-hose: ZB IP55



★ Solder contact arrangement and spec see P47-P48 ★ Crimp contact arrangement and spec see P49-P52

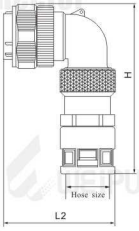
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
∅D	18	22	26	30	35	44	52	59
L	78	89.3	95.7	102.3	122.9	133.4	138.8	155
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

Plug for plastic-hose: TB IP55



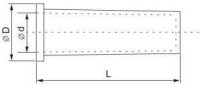
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
∅D1	25	30	34	38.5	44.5	54	62	68.5
L1	76.7	90.1	94.6	101.7	119.5	133.4	140	157
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	I: 1″ II: 1¼″	1¼″

Plug with angled back shell for plastic-hose : TW IP55



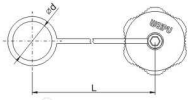
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
H	58	78	78	91	105	120	125	132
L2	46.5	54	57.3	71	81.5	90.5	98	108
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	1/4″	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

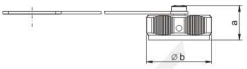
PVC cable protection sleeve



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	11.5	16.5	16.5	19	25	30	30	36
L	30	38	38	38	51	53	53	59
d Max	6	6	6	7	13	17.8	17.8	23

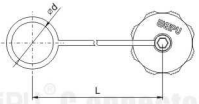
Metal receptacle cap for WY IP67





Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
a	13.5	14.5	14.5	14.5	17	17	17	17
Øb	20	29.5	34	38.5	44	54	62	68.5
Ød	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120

Plastic receptacle cap for WS and WF IP44



Dimension(mm)	WS/WF16	WS/WF20	WS/WF24	WS/WF28	WS/WF32	WS/WF40	WS/WF48	WS/WF55
a	14	14.5	14.5	14.5	20	20	20	20
Øb	21	26	29.5	34	39	48	55.5	62.5
Ød	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120

★Solder contact arrangement and spec for WS,WF,WY series

WS16、WF16、WY16	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10A	10A	5A	5A	5A	5A	5A
Contact diameter	∅1.5X2	∅1.5X3	∅1X4	∅1X5	∅1X7	∅1X9	∅1X10
Rated voltage (AC.V)	500V	500V	500V	500V	400V	400V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1200V	1200V	1200V
Contact resistance mΩ	2.5	2.5	5	5	5	5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤2/14	≤2/14	≤0.785/18	≤0.785/18	≤0.785/18	≤0.785/18	≤0.785/18

WS20、WF20、WY20	2	3	4	5	6	7	9	12
Male contact face view								
Rated current (A)	25A	25A	25A	10A	5A、30A	10A	5A	5A
Contact diameter	∅2.5X2	∅2.5X3	∅2.5X4	∅1.5X5	∅1X4、∅3X2	∅1.5X7	∅1X9	∅1X12
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1200V
Contact resistance mΩ	1	1	1	2.5	5、1	2.5	5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤2.5/13	≤2.5/13	≤2.5/13	≤2/14	≤0.785/18 ≤4.17/11	≤2/14	≤0.785/18	≤0.785/18

WS24、WF24、WY24	2	3	4	9	10	12	19
Male contact face view							
Rated current (A)	25A	25A	25A	5A、25A	10A	10A	5A
Contact diameter	∅2.5X2	∅2.5X3	∅2.5X4	∅1X5 、∅2.5X4	∅1.5X10	∅1.5X12	∅1X19
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	1	1	1	5、1	2.5	2.5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤2.5/13	≤2.5/13	≤2.5/13	≤0.785/18 ≤2.5/13	≤2/14	≤2/14	≤0.785/18

WS28、WF28、WY28	2	3	4	7	12	16	17	20	24	26
Male contact face view										
Rated current (A)	25A	50A	25A	25A	10A	10A	10A	5A	5A	5A
Contact diameter	∅2.5X2	∅3.5X3	∅2.5X4	∅2.5X7	∅1.5X12	∅1.5X16	∅1.5X17	∅1X20	∅1X24	∅1X26
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	400V	400V	400V
Test voltage(AC.V) 1 min	2000V	1500V	1500V	1500V	1500V	1500V	1500V	1200V	1200V	1200V
Contact resistance mΩ	1	0.5	1	1	2.5	2.5	2.5	5	5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤2.5/13	≤6/9	≤2.5/13	≤2.5/13	≤2/14	≤2/14	≤2/14	≤0.785/18	≤0.785/18	≤0.785/18

★Solder contact arrangement and spec for WS,WF,WY series

WS32、WF32、WY32	4	6	8	10	10B	11	12	13	19
Male contact face view									
Rated current (A)	50A	10A、25A	10A、25A	10A、25A	25A	25A	25A	10A、25A	10A
Contact diameter	∅3.5X4	∅1.5X2 ∅3.5X4	∅1.5X5 ∅3.5X3	∅1.5X5 ∅2.5X5	∅2.5X10	∅2.5X11	∅2.5X12	∅1.5X9 ∅2.5X4	∅1.5X19
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	0.5	2.5、0.5	2.5、0.5	2.5、1	1	1	1	2.5、1	2.5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤6/9	≤2/14 ≤2.5/13	≤2/14 ≤2.5/13	≤2/14 ≤2.5/13	≤2.5/13	≤2.5/13	≤2.5/13	≤2/14 ≤2.5/13	≤2/14

WS40、WF40、WY40	5	9	15	26	31
Male contact face view					
Rated current (A)	50A	25A、50A	10A	10A、25A	10A
Contact diameter	∅3.5X5	∅2.5X5 ∅3.5X4	∅1.5X15	∅1.5X22 ∅2.5X4	∅1.5X31
Rated voltage (AC.V)	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	0.5	1、0.5	2.5	2.5、1	2.5
Insulation resistance MΩ	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤6/9	≤2.5/13 ≤6/9	≤2/14	≤2/14 ≤2.5/13	≤2/14

WS48、WF48、WY48	5	7	20	27	38	42
Male contact face view						
Rated current (A)	100A	50A	25A	10A、25A	10A、25A	10A
Contact diameter	∅5.5X5	∅3.5X7	∅2.5X20	∅1.5X26 ∅2.5X1	∅1.5X33 ∅2.5X5	∅1.5X42
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	0.3	0.5	1	2.5、1	2.5、1	2.5
Insulation resistance MΩ	2000	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤16/5	≤6/9	≤2.5/13	≤2/14 ≤2.5/13	≤2/14 ≤2.5/13	≤2/14

WS55、WF55、WY55	4	7	40	53	61
Male contact face view					
Rated current (A)	50A、200A	50A、100A	10A、25A	10A、25A	10A
Contact diameter	∅3.5X1 ∅10X3	∅3.5X1 ∅5.5X6	∅1.5X25 ∅2.5X15	∅1.5X48 ∅2.5X5	∅1.5X61
Rated voltage (AC.V)	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	0.5、0.2	0.5、0.3	2.5、1	2.5、1	2.5
Insulation resistance MΩ	2000	2000	2000	2000	2000
Wire size mm^2/AWG	≤6/9 ≤35/2	≤6/9 ≤16/5	≤2/14 ≤2.5/13	≤2/14 ≤2.5/13	≤2/14

CRIMP

Crimp

Insert contact

- Crimp contact for: SP/SY/WP/WS/WF/WY Series
- 5A crimp contact : stamped
- 10A/25A/50A crimp contact: machined
- Insert material : PPS , max temperature 260℃ UL 94 V-0

Remove contact

★ Crimp contact arrangement and spec for WS,WF,WY,WP,SP,SY series

WS16、WF16、WY16 SP17、SY17	2	3	4
Male contact face view			
Rated current (A)	10A	10A	5A
Contact diameter	∅1.5X2	∅ 1.5X3	∅ 1X4
Rated voltage (AC.V)	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V
Contact resistance mΩ	2.5	2.5	5
Insulation resistance MΩ	2000	2000	2000

WS20、WF20、WY20、WP20 SP21、SY21	2	3	5	7	8
Male contact face view					
Rated current (A)	25A	25A	10A	10A	5A
Contact diameter	∅ 2.5X2	∅ 2.5X3	∅ 1.5X5	∅ 1.5X7	∅1X8
Rated voltage (AC.V)	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	1	1	2.5	2.5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000

WS24、WF24、WY24	4	5	9	12
Male contact face view				
Rated current (A)	25A	25A	10A	5A
Contact diameter	∅ 2.5X4	∅ 2.5X5	∅ 1.5X9	∅ 1X12
Rated voltage (AC.V)	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V
Contact resistance mΩ	1	1	2.5	5
Insulation resistance MΩ	2000	2000	2000	2000

WS28、WF28、WY28	7	12	15	19
Male contact face view				
Rated current (A)	25A	10A	5A	5A
Contact diameter	∅ 2.5X7	∅ 1.5X12	∅ 1X15	∅ 1X19
Rated voltage (AC.V)	500V	500V	400V	400V
Test voltage(AC.V) 1 min	1500V	1500V	1200V	1200V
Contact resistance mΩ	1	2.5	5	5
Insulation resistance MΩ	2000	2000	2000	2000

★ Crimp contact arrangement and spec for WS,WF,WY series

WS32、WF32、WY32	4	6	10	15	19
Male contact face view					
Rated current (A)	50A	50A、10A	25A	10A	10A
Contact diameter	∅3.5X4	∅3.5X4 ∅1.5X 2	∅2.5X10	∅1.5X15	∅1.5X19
Rated voltage (AC.V)	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V
Contact resistance mΩ	2.5	2.5	5	5	5
Insulation resistance MΩ	2000	2000	2000	2000	2000

WS40、WF40、WY40	5	19	31
Male contact face view			
Rated current (A)	50A	25A	10A
Contact diameter	∅3.5X5	∅2.5X19	∅1.5X31
Rated voltage (AC.V)	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V
Contact resistance mΩ	1	1	2.5
Insulation resistance MΩ	2000	2000	2000

WS48、WF48、WY48	31	42
Male contact face view		
Rated current (A)	25A	10A
Contact diameter	∅2.5X31	∅1.5X42
Rated voltage (AC.V)	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V
Contact resistance mΩ	1	2.5
Insulation resistance MΩ	2000	2000

WS55、WF55、WY55	38	61
Male contact face view		
Rated current (A)	25A	10A
Contact diameter	∅2.5X38	∅1.5X61
Rated voltage (AC.V)	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V
Contact resistance mΩ	1	2.5
Insulation resistance MΩ	2000	2000

★ Crimp contact spec

5A Crimp contact

Technical data

- Stamped contact
- Contact diameter: ∅1
- Material:Brass with gold plating
- Contact resistance:5mΩ

5A Male crimp contact

For SP,SY,WP,WS/WF/WY16-28

Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
0.20-0.52mm^2	AWG 24-20	5.5mm	YJ1-17-0.52AU	CT-P20/28	RT-1.0

5A Female crimp contact

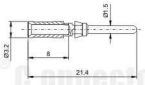
For SP,SY,WP,WS/WF/WY16-28

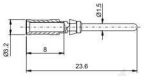
Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
0.20-0.52mm^2	AWG 24-20	5.5mm	YK-17-0.52AU	CT-P20/28	RT-1.0

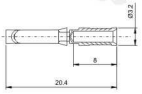
10A Crimp contact

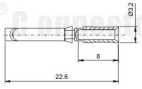
Technical data

- Machined contact
- Contact diameter: ∅1.5
- Material:Brass with gold plating
- Contact resistance:2.5mΩ









10A Male crimp contact

For SP,SY,WP,WS/WF/WY16-28

Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
0.14-0.37mm^2	AWG 26-22	8mm	YJ1.5-21.4-0.37AU	CT-0.14/4	RT-1.5
0.5mm^2	AWG 20	8mm	YJ1.5-21.4-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0mm^2	AWG 18	8mm	YJ1.5-21.4-1.0AU	CT-0.14/4	RT-1.5
1.5mm^2	AWG 16	8mm	YJ1.5-21.4-1.5AU	CT-0.14/4	RT-1.5
2.5mm^2	AWG 14	8mm	YJ1.5-21.4-2.5AU	CT-0.14/4	RT-1.5

10A Male crimp contact

For WS/WF/WY32-55

Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
0.14-0.37mm^2	AWG 26-22	8mm	YJ1.5-23.6-0.37AU	CT-0.14/4	RT-1.5
0.5mm^2	AWG 20	8mm	YJ1.5-23.6-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0mm^2	AWG 18	8mm	YJ1.5-23.6-1.0AU	CT-0.14/4	RT-1.5
1.5mm^2	AWG 16	8mm	YJ1.5-23.6-1.5AU	CT-0.14/4	RT-1.5
2.5mm^2	AWG 14	8mm	YJ1.5-23.6-2.5AU	CT-0.14/4	RT-1.5

10A Female crimp contact

For SP,SY,WP,WS/WF/WY16-28

Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
0.14-0.37mm^2	AWG 26-22	8mm	YK1.5-20.4-0.37AU	CT-0.14/4	RT-1.5
0.5mm^2	AWG 20	8mm	YK1.5-20.4-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0mm^2	AWG 18	8mm	YK1.5-20.4-1.0AU	CT-0.14/4	RT-1.5
1.5mm^2	AWG 16	8mm	YK1.5-20.4-1.5AU	CT-0.14/4	RT-1.5
2.5mm^2	AWG 14	8mm	YK1.5-20.4-2.5AU	CT-0.14/4	RT-1.5

10A Female crimp contact

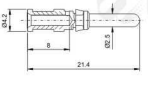
For WS/WF/WY32-55

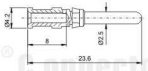
Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
0.14-0.37mm^2	AWG 26-22	8mm	YK1.5-22.6-0.37AU	CT-0.14/4	RT-1.5
0.5mm^2	AWG 20	8mm	YK1.5-22.6-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0mm^2	AWG 18	8mm	YK1.5-22.6-1.0AU	CT-0.14/4	RT-1.5
1.5mm^2	AWG 16	8mm	YK1.5-22.6-1.5AU	CT-0.14/4	RT-1.5
2.5mm^2	AWG 14	8mm	YK1.5-22.6-2.5AU	CT-0.14/4	RT-1.5

25A Crimp contact

Technical data

- Machined contact
- Contact diameter: ∅2.5
- Material:Brass with gold plating
- Contact resistance:1mΩ





25A Male crimp contact

For SP,SY,WP,WS/WF/WY16-28

Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
0.75-1.0mm^2	AWG 18	8mm	YJ2.5-21.4-1.0AU	CT-0.14/4	RT-2.5
1.5mm^2	AWG 16	8mm	YJ2.5-21.4-1.5AU	CT-0.14/4	RT-2.5
2.5mm^2	AWG 14	8mm	YJ2.5-21.4-2.5AU	CT-0.14/4	RT-2.5
4.0mm^2	AWG 12	8mm	YJ2.5-21.4-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

25A Male crimp contact

For WS/WF/WY32-55

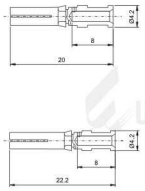
Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
0.75-1.0mm^2	AWG 18	8mm	YJ2.5-23.6-1.0AU	CT-0.14/4	RT-2.5
1.5mm^2	AWG 16	8mm	YJ2.5-23.6-1.5AU	CT-0.14/4	RT-2.5
2.5mm^2	AWG 14	8mm	YJ2.5-23.6-2.5AU	CT-0.14/4	RT-2.5
4.0mm^2	AWG 12	8mm	YJ2.5-23.6-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

★ Crimp contact spec and tools

25A Crimp contact

Technical data

- Machined contact
- Contact diameter: ∅ 2.5
- Material:Brass with gold plating
- Contact resistance:1m Ω



25A Female crimp contact

For SP,SY,WP,WS/WF/WY16-28

Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
0.75-1.0mm^2	AWG 18	8mm	YK2.5-20-1.0AU	CT-0.14/4	RT-2.5
1.5mm^2	AWG 16	8mm	YK2.5-20-1.5AU	CT-0.14/4	RT-2.5
2.5mm^2	AWG 14	8mm	YK2.5-20-2.5AU	CT-0.14/4	RT-2.5
4.0mm^2	AWG 12	8mm	YK2.5-20-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

25A Female crimp contact

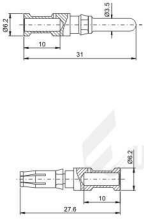
For WS/WF/WY32-55

Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
0.75-1.0mm^2	AWG 18	8mm	YK2.5-22.2-1.0AU	CT-0.14/4	RT-2.5
1.5mm^2	AWG 16	8mm	YK2.5-22.2-1.5AU	CT-0.14/4	RT-2.5
2.5mm^2	AWG 14	8mm	YK2.5-22.2-2.5AU	CT-0.14/4	RT-2.5
4.0mm^2	AWG 12	8mm	YK2.5-22.2-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

50A Crimp contact

Technical data

- Machined contact
- Contact diameter: ∅ 3.5
- Material:Brass with gold plating
- Contact resistance:0.5m Ω



50A Male crimp contact

For WS/WF/WY32-55

Wire size		Strip length	Male contact p/n	Crimp tool p/n	Removal tool p/n
1.5mm^2	AWG 16	10mm	YJ3.5-31-1.5AU	CT-0.14/4	RT-3.5
2.5mm^2	AWG 14	10mm	YJ3.5-31-2.5AU	CT-0.14/4	RT-3.5
4.0mm^2	AWG 12	10mm	YJ3.5-31-4.0AU	CT-0.14/4 CT-4/10	RT-3.5
6.0mm^2	AWG 10	10mm	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0mm^2	AWG 7	10mm	YJ3.5-31-10.0AU	CT-4/10	RT-3.5

50A Female crimp contact

For WS/WF/WY32-55

Wire size		Strip length	Female contact p/n	Crimp tool p/n	Removal tool p/n
1.5mm^2	AWG 16	10mm	YK3.5-27.6-1.5AU	CT-0.14/4	RT-3.5
2.5mm^2	AWG 14	10mm	YK3.5-27.6-2.5AU	CT-0.14/4	RT-3.5
4.0mm^2	AWG 12	10mm	YK3.5-27.6-4.0AU	CT-0.14/4 CT-4/10	RT-3.5
6.0mm^2	AWG 10	10mm	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0mm^2	AWG 7	10mm	YK3.5-27.6-10.0AU	CT-4/10	RT-3.5

★ Crimp tool and removal tool

Crimp tool

For crimping the male / female contacts

Turn the button clockwise to release

Part number	Crimping wire range
CT-P20/28	0.08-0.52mm^2
CT-0.14/4	0.14-4.0mm^2
CT-4/10	4.0-10.0mm^2

Removal tool

For taking out male / female contacts

RT-1.0 RT-1.5 RT-2.5 RT-3.5

Part number	Removing crimp contact
RT-1.0	5A male/female crimp contact
RT-1.5	10A male/female crimp contact
RT-2.5	25A male/female crimp contact
RT-3.5	50A male/female crimp contact

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2110/S2, SP2113/P4+
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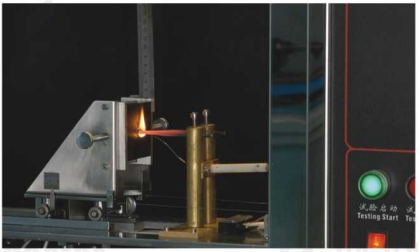
APPENDIX to C.O.C No. LVD11-4716-2
Signed by:
Zhang Xuxing
Vice Director of CVC

WEiPU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