













LINE 4 CABUR SOLAR CONNECTORS

PANEL 4-6 mm ² CONNECTORS	4
FLY 4-6 mm² CONNECTORS	5
FLY 10 mm ² CONNECTORS	6
Y CONNECTORS	7
ELICE HOLDED CONNECTOD	Ω





The line includes mobile and panel connectors certified TÜV.

Cabur Solar "Line 4" connectors allow simple and effective connections with the most common inverter/junction boxes.

The Line 4 connectors are composed by:

- Flying connectors, male and female
- Panel connectors, male and female
- Y connectors

All Cabur Solar "Line 4" connectors are supplied with caps and relative accessories.

In order to assure a connection compliance with standard, Cabur reccomend use of pliers UMCT with matrix IS3154 or the pliers IS3161.

The use of this tools is mandatory for guaranteed a excelent connection and the duration of the plant.

FAST, SIMPLE, AND EFFECTIVE: CONNECTION IN JUST THREE STEPS

- 1 Insert the stripped wire into the contact to be crimped -CRIMP IT-.
- Insert the wire complete with contact into the connector and push hard until you hear the typical CLICK which indicates that the plastic and metal parts are hooked together. Do not make any joints without checking that the plastic and metal parts are hooked together.
- 3 Screw on the wire gland washer manually until it is firmly homed to guarantee IP67.







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LINE 4 FLYING MALE - FEMALE CONNECTORS



Fig. 1 - Exploded view of the panel connector body. The product is provided assembled.

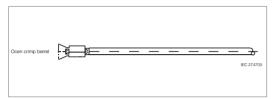


Fig. 2 - Wire crimped onto PIN (top view)

The fly connectors, both male and female, are made by four main parts:

- 1 Metallic PIN
- 2 Rubber washer
- 3 Rigid PPO plastic washer
- 4 Main body made of PPO plastic
- 1 Pin is a metallic contact made of tinned copper composed by two metallic wings allowing cable tightening via crimping action. The pin wings should be bending around the cable core. This action should be done with the appropriate Cabur Solar accessories.
- 2 Rubber washer is used to protect internal part of the connector, thus preventing penetration of external agents such as humidity, dust, and oils. This is achieved by pinching the electric wire insulating sleeve.



Fig. 3 - Wire crimped onto PIN (inner view)



Fig. 4 - "Line 4" connector Pins

- 3 PPO plastic washer has a conical cavity that, after being screwed into the main body of the connector, forces the reeds together, compressing the rubber sheath into the wire insulation and hence acting to help ensure IP67 protection.
- 4 The main body holds the metallic PIN crimped onto the cable.

Connection from male and female connectors is made having the male metallic PIN paired with the female PIN, vice versa happens for the plastic shells.

Female connector has one red rubber ring which acts as insulating washer against the penetration of external atmospheric agents.

Male and female connectors are hooked together mechanically by means of two elastic wings on the female connector which must be inserted in the male connectors insulating body special slots.

MALE-FEMALE PANEL CONNECTORS OF LINE 4



Fig. 5 – Exploded view of the connector body. The product is provided assembled.

The connector are made by three parts:

- 1 Metallic PIN
- 2 Rigid PPO hexagonal plastic washer
- 3 Main body made of PPO plastic



Fig. 6 - Exploded view of the rubber connector.

- 1 Metallic PIN is similar to the one of the flying version.
- 2 Hexagonal nut allows locking the connector on panel surface. Pay attention to the strength used to block the connector as, if excessive, could damage the
- 3 Main body made of PPO plastic is similar to the one of the flying version.



- Maximum voltage 1000Vdc
- 4-6mm² section







VERSION		CODE	IS14110P	IS24111P
VERSION		TYPE	KX04PM4060	KX04PF4060
TECHNICAL DATA				
Application			Panel	Panel
Connector type			Male	Female
PIN diameter		(mm)	4	4
Cable section		(mm²)	4-6	4-6
DI'	Movable matrix		UMCT3149	UMCT3149
Pliers to use	Fixed matrix		IS3161	IS3161
Matrix to use			IS3154	IS3154
PIN material			Tinned Copper	Tinned Copper
Contact resistance	Rc	(mΩ)	< 5	< 5
Case material			PP0	PP0
Max. applicable voltage		(Vdc)	1000	1000
Max. applicable current		(A)	25	25
Operating temperature ra	nge	(°C)	-40+85	-40+85
Protection degree			IP67	IP67
Inflamability class			UL94-V0	UL94-V0
Pack quantity		pieces	100	100
Packaging			10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.	10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.

ACCESSORIES				
.			IS15BLOCK	IS15BLOCK
Blocking ring	Pack quantity	pieces	50	50
Unblocking key for release			IS15SBLOCK	IS15SBLOCK
connectors	Pack quantity	pieces	2	2
	Male		IS52400	IS52400
	Female		IS51400	IS51400
Caps	Working Temperature range		-40+85	-40+85
	Protection degree		IP67	IP67
	Inflamability class		UL94-V0	UL94-V0
	Pack quantity	pieces	50	50
SPARE COMPONENTS	5			
No. Postoli			ISPAN4MP	ISPAN4FP
Plastic shell	Pack quantity	pieces	100	100
Metallic PIN			ISPIN44060M	ISPIN44060F
Metallic PIN	Pack quantity	pieces	100	100
Astallia DINd an asal			IS0601207	IS0601209
Metallic PIN wound on reel	Pack quantity	pieces	2000	2000



- Maximum voltage 1000Vdc
- 4-6mm² section







VERSION		CODE	IS14240	IS24241	IS4FM
VERSION		TYPE	KX04VM4060	KX04VF4060	KX04VFM4060
TECHNICAL DATA	A				
Application			Flying	Flying	Flying
Connector type			Male	Female	Female + Male
PIN diameter		(mm)	4	4	4
Cable section		(mm²)	4-6	4-6	4-6
Pliers to use	Movable matrix		UMCT3149	UMCT3149	UMCT3149
rtiers to use	Fixed matrix		IS3161	IS3161	IS3161
Matrix to use			IS3154	IS3154	IS3154
PIN material			Tinned Copper	Tinned Copper	Tinned Copper
Contact resistance	Rc	(mΩ)	< 5	< 5	< 5
Case material			PP0	PP0	PP0
Max. applicable voltage	1	(Vdc)	1000	1000	1000
Max. applicable current	t	(A)	25	25	25
Operating temperature	range	(°C)	-40+85	-40+85	-40+85
Protection degree			IP67	IP67	IP67
Inflamability class			UL94-V0	UL94-V0	UL94-V0
Pack quantity		pieces	100	100	100
Packaging			10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.	10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.	50 bag for every box, every single bag contains 2 plastic shell and 2 metallic PIN.







ACCESSORIES					
.			IS15BL0CK	IS15BLOCK	IS15BLOCK
Blocking ring	Pack quantity	pieces	50	50	50
Unblocking key for release			IS15SBLOCK	IS15SBLOCK	IS15SBLOCK
connectors	Pack quantity	pieces	2	2	2
	Male		IS52400	IS52400	IS52400
	Female		IS51400	IS51400	IS51400
.	Working Temperature range		-40+85	-40+85	-40+85
Caps	Protection degree		IP67	IP67	IP67
	Inflamability class		UL94-V0	UL94-V0	UL94-V0
	Pack quantity	pieces	50	50	50
SPARE COMPONENTS	5				
Nastia aball			ISV0L4M	ISV0L4F	ISVOL4F / ISVOL4M
Plastic shell	Pack quantity	pieces	100	100	100 / 100
Metallic PIN			ISPIN44060M	ISPIN44060F	ISPIN44060F / ISPIN44060M
	Pack quantity	pieces	100	100	100 / 100
Metallic PIN wound on reel			IS0601207	IS0601209	IS0601209 / IS0601207
	Pack quantity	pieces	2000	2000	2000 / 2000



- Maximum voltage 1000Vdc
- 10mm² section





VERSION		CODE	IS14242	IS24243
TECHNICAL DATA		TYPE	KX04VM100	KX04VF100
TECHNICAL DATA				
Application			Flying	Flying
Connector type			Male	Female
PIN diameter		(mm)	4	4
Cable section		(mm²)	10	10
Pliers to use	Movable matrix		-	-
Pilers to use	Fixed matrix		IS3110	IS3110
Matrix to use			-	-
PIN material			Tinned Copper	Tinned Copper
Contact resistance	Rc	(mΩ)	< 5	< 5
Case material			PP0	PP0
Max. applicable voltage		(Vdc)	1000	1000
Max. applicable current		(A)	25	25
Operating temperature range		(°C)	-40+85	-40+85
Protection degree			IP67	IP67
Inflamability class			UL94-V0	UL94-V0
Pack quantity		pieces	100	100
Packaging			10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.	10 bag for every box, every single bag contains 10 plastic shell and 10 metallic PIN.

ACCESSORIES				
Blocking ring			IS15BLOCK	IS15BLOCK
blocking ring	Pack quantity	pieces	50	50
Unblocking key for release			IS15SBLOCK	IS15SBLOCK
connectors	Pack quantity	pieces	2	2
	Male		IS52400	IS52400
	Female		IS51400	IS51400
•	Working Temperature range		-40+85	-40+85
Caps	Protection degree		IP67	IP67
	Inflamability class		UL94-V0	UL94-V0
	Pack quantity	pieces	50	50
SPARE COMPONENTS	S			
Plastic shell			-	-
riastic snett	Pack quantity	pieces	-	-
Metallic PIN			-	-
	Pack quantity	pieces	-	-
Metallic PIN wound on reel			-	-
Metattic PIN Wound on reet	Pack quantity	pieces	-	-



- Maximum voltage 1000Vdc
- For Y connections





VERSION		CODE	IS41410	IS42420
TECHNICAL DATA		TYPE	KX04MFF	KX04FMM
			EL:	E1 :
Application			Flying	Flying
Connector type			Male/ Fem - Female	Female / Male - Male
PIN diameter		(mm)	4	4
Cable section		(mm²)	-	-
Pliers to use	Movable matrix		_	_
Pilers to use	Fixed matrix		-	-
Matrix to use			-	-
PIN material			Tinned Copper	Tinned Copper
Contact resistance	Rc	(mΩ)	< 5	< 5
Case material			PP0	PP0
Max. applicable voltage		(Vdc)	1000	1000
Max. applicable current		(A)	35	35
Operating temperature range		(°C)	-40+85	-40+85
Protection degree			IP67	IP67
Inflamability class			UL94-V0	UL94-V0
Pack quantity		pieces	30	30
Packaging			6 bag for every box, every single bag contains 5 Y connectors.	6 bag for every box, every single bag contains 5 Y connectors.

ACCESSORIES				
Blocking ring			IS15BLOCK	IS15BLOCK
Stocking ring	Pack quantity	pieces	50	50
Jnblocking key for release			IS15SBLOCK	IS15SBLOCK
connectors	Pack quantity	pieces	2	2
	Male		IS52400	IS52400
	Female		IS51400	IS51400
•	Working Temperature range		-40+85	-40+85
Caps	Protection degree		IP67	IP67
	Inflamability class		UL94-V0	UL94-V0
	Pack quantity	pieces	50	50
SPARE COMPONENTS	S			
Plastic shell			-	-
riastic snett	Pack quantity	pieces	-	-
Metallic PIN			-	-
	Pack quantity	pieces	-	-
Metallic PIN wound on reel			-	-
Metattic PIN Wound on reet	Pack quantity	pieces	-	-



- Maximum voltage 1000Vdc
- Fuse holder connector

(1) Max. fuse rate



VEDCION		CODE	IS43430
VERSION		TYPE	KX04FMH
TECHNICAL DATA			
Application			Flying
Connector type			Female
PIN diameter		(mm)	4
Cable section		(mm²)	4-6
Pliers to use	Movable matrix		UMCT3149
Pilers to use	Fixed matrix		IS3161
Matrix to use			IS3154
PIN material			Tinned Copper
Contact resistance	Rc	(mΩ)	< 5
Case material			PP0
Max. applicable voltage		(Vdc)	1000
Max. applicable current		(A)	20 (1)
Operating temperature rang	ge	(°C)	-40+85
Protection degree			IP67
Inflamability class			UL94-V0
Pack quantity		pieces	50
Packaging			10 bag for every box, every single bag contains 5 plastic shell and 5 metallic PIN.

ACCESSORIES			
Blocking ring			IS15BLOCK
blocking ring	Pack quantity	pieces	50
Unblocking key for release			IS15SBLOCK
connectors	Pack quantity	pieces	2
	Male		IS52400
	Female		IS51400
0	Working Temperature range		-40+85
Caps	Protection degree		IP67
	Inflamability class		UL94-V0
	Pack quantity	pieces	50
SPARE COMPONENTS	S		
Plastic shell			-
rtastic snett	Pack quantity	pieces	-
Metallic PIN			-
MELALLIC FIN	Pack quantity	pieces	-
Metallic PIN wound on reel			-
Metallic PIN wound on reel	Pack quantity	pieces	-





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