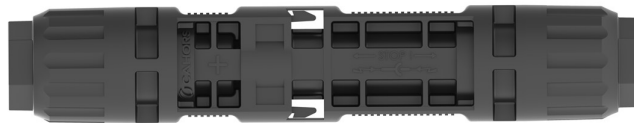


PLUG IN CONNECTOR(CSC-PI4) - TECHNICAL SPECIFICATION

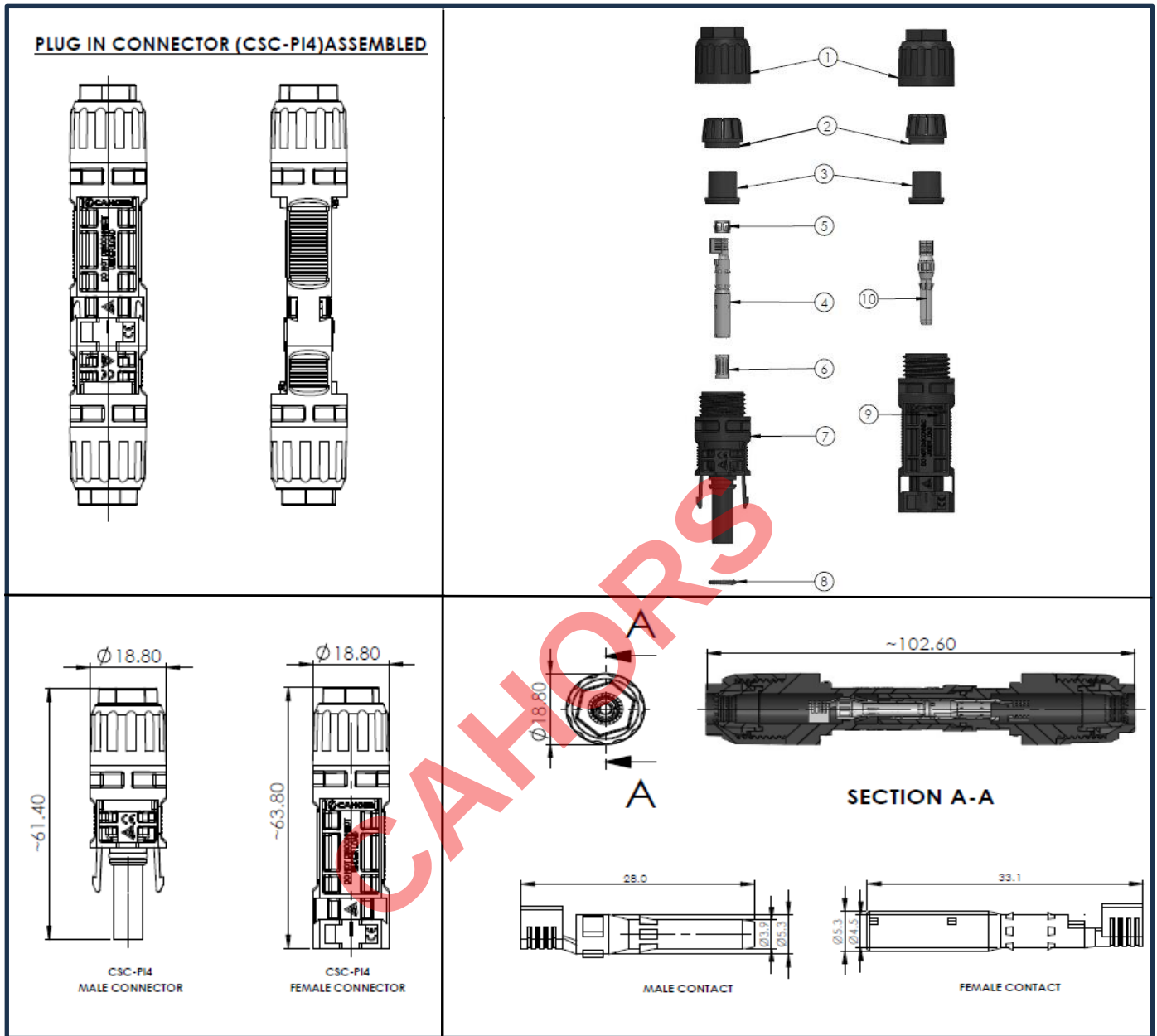


ISO-9001:2015
ISO-14000:2015
ISO-45000:2018



PARAMETERS	SPECIFICATIONS
Connector Design	Snap-in type, NEC Code Compliant
Rated Voltage	1500 VDC
Rated Current @ 85°C ambient temperature	25A (2.5 mm ²), 40A (4 mm ²), 50A (6 mm ²)
Rated Impulse Voltage	16kV
Protection/Safety Class	II
Overvoltage category/ pollution degree	CAT III/2
Flame Class	UL94-V0
Protection Degree	IP65/68(1.5mtr/60min)
Ambient Temperature Range	- 40°C to + 85°C
Upper Limiting Temperature of conductor	105°C
Contact Resistance of connectors	≤0.30mΩ
Type of Conductor	Flexible
Number of poles	1 Pole
Rewirable	Non-Rewirable Connector
Insertion and withdrawal force	50N Max. (Insertion) 250N Min. (Withdrawal)
Contact material	Copper Tin plated
Insulation material	mPPE (Modified Polyphenylene Ether)
Applicable standard	IEC 62852:2014 + Amd.1:2020 EN 62852:2015 + Amd.1:2020
Sulphur dioxide (SO ₂) resistance	Comply
RoHS Compliance & Halogen Free	Comply
Cable & Connector OD Range compatible	Ø4.80 (Min.) & Ø6.40 (Max.)
Conductor OD range compatible	Ø1.80 mm (Min.) & Ø2.80 mm
Testing Requirement apart from routine test	IP & Dielectric Strength according to the DC cable to be used.
Termination and connection	Crimped connection according to IEC 60352-2

PLUG IN CONNECTOR(CSC-PI4) – GENERAL ARRANGMENT DRAWING

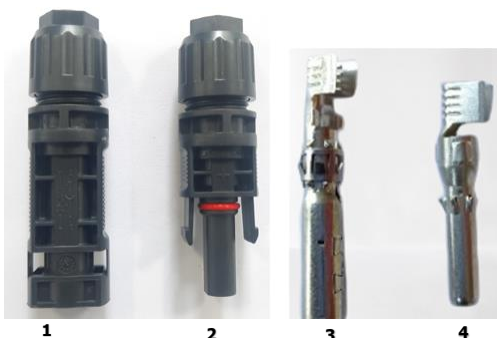


10	MALE CONTACT	COPPER	1
9	MALE INSULATOR- PLUG IN	mPPE	1
8	O-RING	SILICONE RUBBER	1
7	FEMALE INSULATOR- PLUG IN	mPPE	1
6	CAGE CONTACT	COPPER ALLOY	1
5	SS GRIPPER	SS	1
4	FEMALE CONTACT	COPPER	1
3	GROMMET	SILICONE RUBBER	2
2	COLLET	PA-6	2
1	CAP	mPPE	2
ITEM NO.	PART DECRPTION	MATERIAL	QTY.

BILL OF MATERIALS

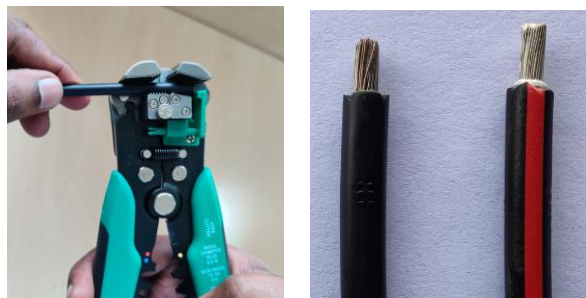
INSTALLATION INSTRUCTION SHEET (IN FIELD)- PLUG IN CONNECTOR (CSC-PI4)

1 SET PRODUCT



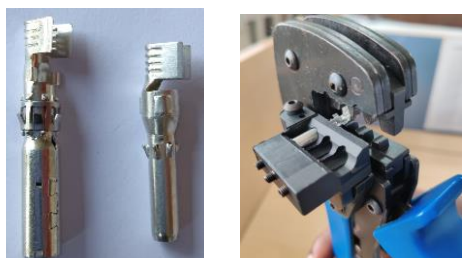
1. MALE INSULATOR ASSEMBLY (MALE INSULATOR+ COLLET+ GROMMET+ CAP)
2. FEMALE INSULATOR ASSEMBLY (FEMALE INSULATOR+ COLLET+ GROMMET+ CAP+ O RING)
3. FEMALE CONTACT ASSEMBLY (FEMALE CONTACT+ CAGE CONTACT+ SS GRIPPER)
4. MALE CONTACT

STEP-1



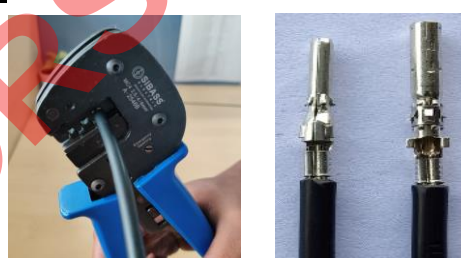
1. CABLE OF SIZE OF 2.5/4/6 SQ.MM AS PER REQUIREMENT
2. CABLE OD COMPATABLE: - Ø4.50 MM TO Ø 6.5 MM
3. STRIP 7-8 MM LENGTH OF CABLE BY A STRIPPING TOOL.
4. USE THE STANDARD STRIPPING TOOL FOR STRIPPING
5. CAHORS RECOMMENDED STRIPPING TOOL (19P2100018)

STEP-2



1. SELECT THE JAW SIZE OF CRIMPING TOOL AS PER CABLE SIZE.
2. PLACE THE BARREL OF COPPER CONTACT IN THE JAW OF TOOL.
3. HOLD THE CONTACT IN THE CRIMPING TOOL
4. CAHORS RECOMMENDED CRIMPING TOOL (19P2100017)

STEP-3



1. INSERT THE CABLE INTO CONTACT.
2. PRESS THE CRIMPING TOOL UNTIL IT RELEASES ITSELF.

STEP-4



1. INSERT THE CRIMPED CONTACTS INTO THE MALE/ FEMALE INSULATORS OF PLUG IN CONNECTOR.
2. CONFIRM THE LOCKING OF MALE & FEMALE HOUSINGS AND COPPER CONTACT BY HEARING THE "CLICK" SOUND.

STEP-5



1. TIGHTEN THE CAP BY THE SPANNER WITH A TORQUE 0.8-1.2 NM
2. INSERT THE MALE CONNECTOR INTO FEMALE CONNECTOR.
3. PRESS THE TWO CONNECTORS BY INSERTION LOCKING & CONFIRM A ROBUST CONNECTION BY HEARING A "CLICK" SOUND

NOTES: -

1. CONNECTOR IS SUITABLE WITH 2.5, 4 & 6 SQ.MM SOLAR CABLES & CABLES SHOULD BE COMPLY WITH IEC 62930.
2. FOR FASTENING/UNFASTENING, RECOMMENDED CAHORS SPANNER PART CODE 19D0000484.
3. NEVER CONNECT OR DISCONNECT THIS CONNECTOR UNDER LOAD.
4. METAL CONTACTS SHOULD BE CRIMPED AS PER IEC 60352-2.
5. TO COMPLY THE TESTED QUALITY, IT'S NECESSARY TO USE RECOMMENDED TOOLS.
6. UNPLUGGED CONNECTORS MUST BE PROTECTED AGAINST INGRESS OF DIRT AND MOISTURE. BEFORE PLUGGING TOGETHER, MAKE SURE THAT THE MATING AREA IS FREE OF ANY DIRT.
7. FOR ADDITIONAL INFORMATION PLEASE REFER TECHNICAL SPECS OR CONTACT TRNAXFIX INDIA.