

SOLAR IPC ASSEMBLIES SIPC

INSULATION PIERCING CONNECTORS WITH PRE-ASSEMBLED MULTI-TAP FOR DC SOLAR APPLICATIONS



SIPC 1000
Multi-tap

SIPC 1000 ES
Multi-tap

ROBUST DESIGN SPECIFICALLY FOR SOLAR EBOS APPLICATIONS, OFFERING A SAFE, SIMPLE, AND RELIABLE CONNECTION.

KEY FEATURES

- Single SIPC covers wide range of trunk bus 500-1000 kcmil.
- Enable an increased number of strings per connection to optimize eBOS architecture.
- Real-time configurability and flexibility, allowing adjustments during site construction to maintain project velocity.
- End-seal caps for dead-end applications integrated with the main SIPC assemblies.
- A factory-integrated multi-tap harness reduces the number of field-installed components for enhanced reliability and a reduction in install time.

TE Connectivity's (TE) Solar IPC Assemblies SIPC offer protection, insulation, and high-quality sealing for fast, easy, and safe cable connection of PV cables ranging from #10 AWG to 1000 kcmil.

The factory-pre-installed dual or multi-tap jumpers provide perfect tap cable alignment, allowing for a simple and safe installation process in the field. No specialised skill is required to install the connector.

Designed to accommodate a trunk bus range of 500-1000 kcmil to allow larger array groups with fewer disconnects, resulting in significant savings in material and labor costs.

These SIPC Assemblies have been built from the ground up on a foundation of field-proven, highly engineered materials and components that our connections are known for. They are designed specifically for solar farms to withstand harsh environmental conditions. They are maintenance-free and robust enough to last for the lifetime of the system.

To prevent unsafe connections before energization and protect the PV connectors from harsh environments, our SIPC assemblies are pre-installed with our SAFE-TE connectors. They are UV-resistant, IP-68-rated and re-usable.

APPLICATIONS

- Utility-scale and commercial solar power generation

RELEVANT STANDARDS AND TESTING

- Tested and approved by cUL9703 (File # E519468)

SIPC-1000 - 2 TAPS

MID-SPAN		DEAD-END		TAP CABLE		
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type
2466276-3	SIPC 1000 - SHDA2AAMTPR	1-2466276-3	SIPC 1000 ES - SHDA2AAMTPR	10 AWG	Red	Male
2466276-2	SIPC 1000 - SHDA2AAFTNB	1-2466276-2	SIPC 1000 ES - SHDA2AAFTNB		Black	Female
2466276-1	SIPC 1000 - SHDA2AAMTPB	1-2466276-1	SIPC 1000 ES - SHDA2AAMTPB		Black	Male
2466276-4	SIPC 1000 - SHDA2AAFTNW	1-2466276-4	SIPC 1000 ES - SHDA2AAFTNW		White	Female
2461454-6	SIPC 1000 - SHDA2BBMSPR	1- 2461454-6	SIPC 1000 ES - SHDA2BBMSPR	8 AWG	Red	Male
2461454-5	SIPC 1000 - SHDA2BBFSNB	1-2461454-5	SIPC 1000 ES - SHDA2BBFSNB		Black	Female
2461454-4	SIPC 1000 - SHDA2BBMSPB	1- 2461454-4	SIPC 1000 ES - SHDA2BBMSPB		Black	Male
2461454-7	SIPC 1000 - SHDA2BBFSNW	1-2461454-7	SIPC 1000 ES - SHDA2BBFSNW		White	Female
2468075-3	SIPC 1000 - SHDA2CCMSPR	1-2468075-3	SIPC 1000 ES - SHDA2CCMSPR	6 AWG	Red	Male
2468075-2	SIPC 1000 - SHDA2CCFSNB	1-2468075-2	SIPC 1000 ES - SHDA2CCFSNB		Black	Female
2468075-1	SIPC 1000 - SHDA2CCMSPB	1-2468075-1	SIPC 1000 ES - SHDA2CCMSPB		Black	Male
2468075-4	SIPC 1000 - SHDA2CCFSNW	1-2468075-4	SIPC 1000 ES - SHDA2CCFSNW		White	Female

SIPC-1000 - 4 TAPS

MID-SPAN		DEAD-END		TAP CABLE		
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type
2470351-1	SIPC 1000-SHMA4CAMTPR	1-2470351-1	SIPC 1000 ES-SHMA4CAMTPR	10 AWG	Red	Male
2468495-1	SIPC 1000-SHMA4CAFTNB	1-2468495-1	SIPC 1000 ES-SHMA4CAFTNB		Black	Female
2468408-1	SIPC 1000-SHMA4CAMTPB	1-2468408-1	SIPC 1000 ES-SHMA4CAMTPB		Black	Male
2470372-1	SIPC 1000-SHMA4CAFTNW	1-2470372-1	SIPC 1000 ES-SHMA4CAFTNW		White	Female
2472928-1	SIPC 1000-SHMA4EBMSPR	1-2472928-1	SIPC 1000 ES-SHMA4EBMSPR	8 AWG	Red	Male
2468493-1	SIPC 1000 - SHMA4EBFSNB	1-2468493-1	SIPC 1000 ES - SHMA4EBFSNB		Black	Female
2468486-1	SIPC 1000-SHMA4EBMSPB	1-2468486-1	SIPC 1000 ES-SHMA4EBMSPB		Black	Male
2472931-1	SIPC 1000 - SHMA4EBFSNW	1-2472931-1	SIPC 1000 ES - SHMA4EBFSNW		White	Female
2472933-1	SIPC 1000-SHMA4ECMSPR	1-2472933-1	SIPC 1000 ES-SHMA4ECMSPR	6 AWG	Red	Male
2468489-1	SIPC 1000 - SHMA4ECFSNB	1-2468489-1	SIPC 1000 ES - SHMA4ECFSNB		Black	Female
2468485-1	SIPC 1000-SHMA4ECMSPB	1-2468485-1	SIPC 1000 ES-SHMA4ECMSPB		Black	Male
2472935-1	SIPC 1000 - SHMA4ECFSNW	1-2472935-1	SIPC 1000 ES - SHMA4ECFSNW		White	Female

SIPC-1000 - 6 TAPS

MID-SPAN		DEAD-END		TAP CABLE		
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type
2472938-1	SIPC 1000-SHMA6DAMTPR	1-2472938-1	SIPC 1000 ES-SHMA6DAMTPR	10 AWG	Red	Male
2468490-1	SIPC 1000 -SHMA6DAFTNB	1-2468490-1	SIPC 1000 ES -SHMA6DAFTNB		Black	Female
2468488-1	SIPC 1000-SHMA6DAMSPB	1-2468488-1	SIPC 1000 ES-SHMA6DAMSPB		Black	Male
2472939-1	SIPC 1000-SHMA6DAMTNW	1-2472939-1	SIPC 1000 ES-SHMA6DAMTNW		White	Female
2472936-1	SIPC 1000 -SHMA6FBMSPR	1-2472936-1	SIPC 1000 ES -SHMA6FBMSPR	8 AWG	Red	Male
2468494-1	SIPC 1000 -SHMA6FBFSNB	1-2468494-1	SIPC 1000 ES -SHMA6FBFSNB		Black	Female
2468487-1	SIPC 1000-SHMA6FBMSPB	1-2468487-1	SIPC 1000 ES-SHMA6FBMSPB		Black	Male
2472937-1	SIPC 1000 -SHMA6FBMSNW	1-2472937-1	SIPC 1000 ES -SHMA6FBMSNW		White	Female

SIPC MODEL		HARNESS PREFIX		NUMBER OF TAPS	CENTER TAP CABLE SIZE	TAP PV CABLE SIZE	CONNECTOR TYPE	CONNECTOR BRAND	POLARITY	TAP CABLE COLOR
SIPC 1000	Blank = Mid Span ES = Dead End	SH: Solar Harness	DA = DUAL TAP	2	A = 10 AWG	A = 10 AWG	F = FEMALE M = MALE	T = TE S = STAUBLI	P = Positive N = Negative	B = Black R = Red W = White
					B = 8 AWG	B = 8 AWG				
			MA = MULTITAP	4	C = 6 AWG	A = 10 AWG				
					E = 2 AWG	B = 8 AWG				
				6	D = 4 AWG	A = 10 AWG				
					F = 1/0	B = 8 AWG				

MAXIMUM OPERATING CONDITIONS

PARAMETERS	TRUNK RATINGS	TAP RATINGS
Maximum Current at 55°C (131°F) ambient	414A for Al stranded 500 kcmil	Cu stranded 10 AWG 30A each
		Cu stranded 8 AWG 55A each
		Cu stranded 6 AWG 65A each
	642A for Al Stranded 1000 kcmil	Cu stranded 4 AWG 90A per side
		Cu stranded 2 AWG 130A per side
		Cu stranded 1/0 AWG 165A per side
Cable Type	Use cable suitable for photovoltaic systems compliant with ZKLA requirements (2 kV PV wire)	
Operating Ambient Temperature	-40°C (-40°F) to 55°C (131°F)	
Connector Installation Temperature	0°C (32°F) to 55°C (131°F)	
Voltage Rating	1500 V DC	

Learn more: [TE.com/solar](https://www.te-connectivity.com/solar)

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