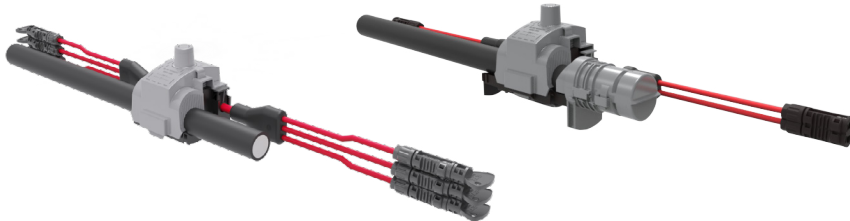


SOLAR IPC ASSEMBLIES SIPC 500

INSULATION PIERCING CONNECTORS WITH PRE-ASSEMBLED MULTI-TAP



SIPC 500
Multi-tap

SIPC 500 ES
Multi-tap

APPLICATIONS

- Utility-Scale Solar Projects

RELEVANT STANDARDS AND TESTING

- UL/cUL 9703
- UL/cUL 486A/B

ROBUST DESIGN FOR SOLAR EBOS APPLICATIONS WITH SIMPLER, SAFER INSTALLATION AND RELIABLE CONNECTIONS

KEY FEATURES

- Accommodates the full range of trunk bus sizes with a single SIPC, from 4/0 to 500 kcmil
- The multi-tap feature allows more strings per connection, optimizing EBOS architecture
- Real-time flexibility allows on-site adjustments during construction, keeping the project on schedule
- End-seal caps for dead-end applications are integrated directly into the main SIPC assemblies
- Ease of Installation:
A factory-integrated multi-tap harness minimizes the need for field-installed components, improving overall reliability

TE Connectivity (TE) Solar IPC Assemblies SIPC offer protection, insulation, and high-quality sealing for fast, easy, and safer installation of PV cables ranging from **#10 AWG to 500 kcmil**.

The factory-assembled dual or multi-tap jumpers provide accurate tap cable alignment, allowing for a simple and safer installation process in the field. **No craft labor is required to install the connector.**

Designed to accommodate a trunk bus range of **4/0-500 kcmil** to allow larger array groups with fewer disconnects, resulting in significant savings due to lower material and labor costs.

Our Solar IPC assemblies are built from the ground up using field-proven, highly engineered materials and components known for their reliability. Designed to withstand the harshest conditions on utility-scale solar projects, they provide a maintenance-free and worry-free connection throughout the system's lifespan.

Our SIPC assemblies integrate TE SOLARLOK Safe Locks, which are UV resistant, IP68/IP69-rated, and reusable. These connectors are pre-installed on all integrated tap cables to prevent unsafe connections before energization.

SIPC 500 - 2 TAPS

MID-SPAN		DEAD-END		TAP CABLE			Voltage Rating
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type	
2491080-1	SIPC 500 - SHDA2BBMSPB	1-2491080-1	SIPC 500 ES - SHDA2BBMSPB	8 AWG	Black	Male	1500 V DC
2491080-2	SIPC 500 - SHDA2BBFSNB	1-2491080-2	SIPC 500 ES - SHDA2BBFSNB		Black	Female	
2491080-3	SIPC 500 - SHDA2BBMSPR	1-2491080-3	SIPC 500 ES - SHDA2BBMSPR		Red	Male	
2491080-4	SIPC 500 - SHDA2BBFSNW	1-2491080-4	SIPC 500 ES - SHDA2BBFSNW		White	Female	
2491081-1	SIPC 500 - SHDA2CCMSPB	1-2491081-1	SIPC 500 ES - SHDA2CCMSPB	6 AWG	Black	Male	
2491081-2	SIPC 500 - SHDA2CCFSNB	1-2491081-2	SIPC 500 ES - SHDA2CCFSNB		Black	Female	
2491081-3	SIPC 500 - SHDA2CCMSPR	1-2491081-3	SIPC 500 ES - SHDA2CCMSPR		Red	Male	
2491081-4	SIPC 500 - SHDA2CCFSNW	1-2491081-4	SIPC 500 ES - SHDA2CCFSNW		White	Female	
2491082-1	SIPC 500 - SHDA2AAMTPB	1-2491082-1	SIPC 500 ES - SHDA2AAMTPB	10 AWG	Black	Male	
2491082-2	SIPC 500 - SHDA2AAFTNB	1-2491082-2	SIPC 500 ES - SHDA2AAFTNB		Black	Female	
2491082-3	SIPC 500 - SHDA2AAMTPR	1-2491082-3	SIPC 500 ES - SHDA2AAMTPR		Red	Male	
2491082-4	SIPC 500 - SHDA2AAFTNW	1-2491082-4	SIPC 500 ES - SHDA2AAFTNW		White	Female	

SIPC 500 - 4 TAPS

MID-SPAN		DEAD-END		TAP CABLE			Voltage Rating
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type	
2491064-1	SIPC 500 - SHMA4CAMTPR	1-2491064-1	SIPC 500 ES - SHMA4CAMTPR	10 AWG	Red	Male	1500 V DC
2491065-1	SIPC 500 - SHMA4CAMTPB	1-2491065-1	SIPC 500 ES - SHMA4CAMTPB		Black	Male	
2491066-1	SIPC 500 - SHMA4CAFTNB	1-2491066-1	SIPC 500 ES - SHMA4CAMTNB		Black	Female	
2491067-1	SIPC 500 - SHMA4CAFTNW	1-2491067-1	SIPC 500 ES - SHMA4CAFTNW		White	Female	
2491068-1	SIPC 500 - SHMA4ECMSPB	1-2491068-1	SIPC 500 ES - SHMA4ECMSPB	6 AWG	Black	Male	
2491069-1	SIPC 500 - SHMA4EBMSPB	1-2491069-1	SIPC 500 ES - SHMA4EBMSPB	8 AWG	Black	Male	
2491071-1	SIPC 500 - SHMA4ECFSNB	1-2491071-1	SIPC 500 ES - SHMA4ECFSNB	6 AWG	Black	Female	
2491073-1	SIPC 500 - SHMA4EBFSNB	1-2491073-1	SIPC 500 ES - SHMA4EBFSNB	8 AWG	Black	Female	
2491074-1	SIPC 500 - SHMA4EBMSPR	1-2491074-1	SIPC 500 ES - SHMA4EBMSPR		Red	Male	
2491075-1	SIPC 500 - SHMA4EBFSNW	2491075-1	SIPC 500 ES - SHMA4EBFSNW		White	Female	
2491076-1	SIPC 500 - SHMA4ECMSPR	1-2491076-1	SIPC 500 ES - SHMA4ECMSPR	6 AWG	Red	Male	
2491077-1	SIPC 500 - SHMA4ECFSNW	1-2491077-1	SIPC 500 ES - SHMA4ECFSNW		White	Female	

SIPC 500 - 6 TAPS

MID-SPAN		DEAD-END		TAP CABLE			Voltage Rating
Part Number	Part Description	Part Number	Part Description	Cable Size	Cable Color	Connector Type	
2491070-1	SIPC 500 - SHMA6DAMTPB	1-2491070-1	SIPC 500 ES - SHMA6DAMTPB	10 AWG	Black	Male	1500 V DC
2491072-1	SIPC 500 - SHMA6DAFTNB	1-2491072-1	SIPC 500 ES - SHMA6DAFTNB		Black	Female	
2491078-1	SIPCSIPC 500 - SHMA6DAMTPR	1-2491078-1	SIPC 500 ES - SHMA6DAMTPR		Red	Male	
2491079-1	SIPC 500 - SHMA6DAFTNW	1-2491079-1	SIPC 500 ES - SHMA6DAFTNW		White	Female	

PRODUCT SELECTION GUIDE

SIPC Model		Harness Prefix		No. of Taps	Center Tap Cable Size	Tap PV Cable Size	Connector Type	Connector Brand	Polarity	Tap Cable Color
SIPC 500	Blank = Mid Span ES = Dead End	SH = Solar Harness	DA = Dual-Tap	2	A = 10 AWG	A = 10 AWG	M = Male F = Female	T = TE S = STAUBLI	P = Positive N = Negative	B = Black R = Red W = White
					B = 8 AWG	B = 8 AWG				
			MA = Multi-Tap	4	C = 6 AWG	C = 6 AWG				
					E = 2 AWG	B = 8 AWG				
						C = 6 AWG				
				6	D = 4 AWG	A = 10 AWG				
					F = 1/0	B = 8 AWG				

DESIGN DATA

Parameters	Trunk Ratings	Tap Ratings
Maximum Current at 55°C (131°F) ambient	239 A for AL stranded 250 kcmil 414 A for AL stranded 500 kcmil	Cu stranded 10 AWG 30 A each
		Cu stranded 8 AWG 55 A each
		Cu stranded 6 AWG 65 A each
		Cu stranded 4 AWG 90 A per side
		Cu stranded 2 AWG 130 A 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	

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