

CABLE CLEATS - TREFOIL

POLYMERIC FLAME-RETARDANT VO MATERIAL



ROBUST DESIGN FOR STRONG MECHANICAL FORCE AND SECURE CABLE FROM ELECTROMAGNETIC FORCE DURING SHORT CIRCUIT EVENTS.

KEY FEATURES

- UV-stabilized, halogen-free, polymeric flame-retardant VO material
- High resistance to electromagnetic forces
- Interlocking EPDM molded inserts version for enhanced cable grip and asset protection
- Stainless-steel hardware for higher corrosion resistance
- Wide Operating Temperature:
-40°C to +120°C
(-40°F to +248°F)

TE Connectivity (TE) Cable Cleats CC provide reliable cable retention and termination systems for low, medium, and high-voltage applications. Tested according to IEC 61914 and provide high resistance to electromagnetic forces during short-circuit events without damaging the cables.

The simplified design ensures easy and fast installation without the need for reinforcing accessories. The cable cleat's flat surface enables various stacked configurations without the need for special hardware or height adapters.

Our trefoil cable cleats are designed to accommodate cables with outer diameters up to 120 mm (8.66 inches) and can be used with both metric and imperial-sized hardware. The interlocking EPDM inserts accommodate cable expansion, contraction, and vibration, thereby providing an increased level of asset protection.

The stainless-steel hardware offers excellent corrosion resistance and mechanical performance. Our cable cleats are also available in single, dual, and stacked versions.

APPLICATIONS

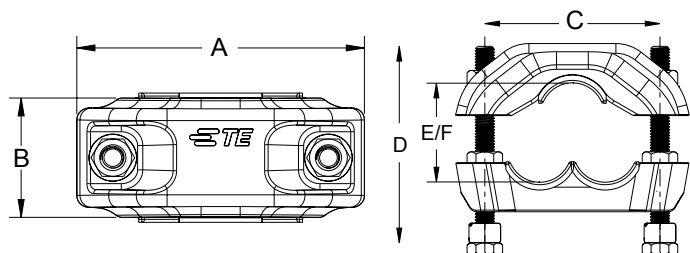
- Substation Solutions
- Underground Power Networks
- Wind Energy Solutions
- Data Center Power System Solutions

STANDARDS AND TEST REPORTS

- Design: IEC 61914:2021
- Material: UL94 VO self-extinguishing
- Short-Circuit Withstand: IEC61914:2021, sub-clause 9.5
- UV Resistance: IEC 61914:2021 subclause 11.1 and ASTM G154

PRODUCT SELECTION FOR NON-STACKED VERSION - DIMENSIONS IN MM (INCHES)

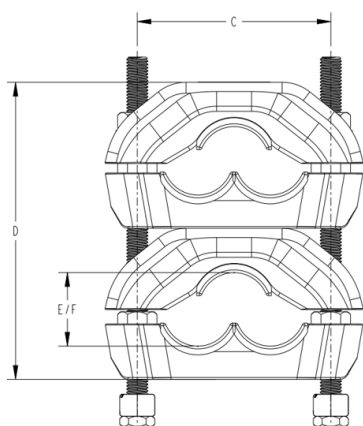
Size Range	Min Cable E	Max Cable F	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D	Screw Size
	With EPDM inserts		Without EPDM inserts						
CCT15-26	ø15 (0.59)	ø26 (1.02)	ø19 (0.74)	ø30 (1.18)	117 (4.61)	55 (2.16)	81 (3.19)	87 (3.43)	M10
CCT26-38	ø26 (1.02)	ø38 (1.5)	ø27 (1.06)	ø42 (1.65)	143 (5.63)	60 (2.36)	107 (4.21)	115 (4.53)	M12
CCT38-50	ø38 (1.5)	ø50 (1.97)	ø39 (1.53)	ø54 (2.12)	173 (6.81)	60 (2.36)	139 (5.47)	140 (5.51)	M12
CCT50-63	ø50 (1.97)	ø63 (2.48)	ø54 (2.12)	ø67 (2.63)	199 (7.83)	65 (2.56)	163 (6.42)	160 (5.90)	M12
CCT63-75	ø63 (2.48)	ø75 (2.95)	ø67 (2.63)	ø79 (3.11)	223 (8.78)	65 (2.56)	187 (7.36)	170 (6.69)	M12
CCT75-89	ø75 (2.95)	ø89 (3.50)	ø79 (3.11)	ø93 (3.66)	261 (10.28)	70 (2.76)	221 (8.69)	221 (8.70)	M12
CCT89-104	ø89 (3.50)	ø104 (4.09)	ø93 (3.66)	ø108 (4.25)	308 (12.13)	75 (2.95)	258 (10.16)	253 (9.96)	M16
CCT104-120	ø104 (4.09)	ø120 (4.72)	ø108 (4.25)	ø124 (4.88)	339 (13.35)	80 (3.15)	290 (11.42)	287 (11.3)	M16



PRODUCT SELECTION FOR STACKED VERSION - DIMENSIONS IN MM (INCHES)

Size Range	Min Cable E	Max Cable F	Length A	Depth B	Bolt H Center C	Max Installed Height D -DOUB	Screw Size
	With EPDM inserts*						
CCT15-26	ø15 (0.59)	ø26 (1.02)	117 (4.61)	55 (2.16)	81 (3.19)	174 (6.85)	M10
CCT26-38	ø26 (1.02)	ø38 (1.5)	143 (5.63)	60 (2.36)	107 (4.21)	230 (9.05)	M12
CCT38-50	ø38 (1.5)	ø50 (1.97)	173 (6.81)	60 (2.36)	139 (5.47)	280 (11.02)	M12
CCT50-63	ø50 (1.97)	ø63 (2.48)	199 (7.83)	65 (2.56)	163 (6.42)	320 (12.60)	M12
CCT63-75	ø63 (2.48)	ø75 (2.95)	223 (8.78)	65 (2.56)	187 (7.36)	340 (13.39)	M12
CCT75-89	ø75 (2.95)	ø89 (3.50)	261 (10.28)	70 (2.76)	221 (8.69)	442 (17.40)	M12
CCT89-104	ø89 (3.50)	ø104 (4.09)	308 (12.13)	75 (2.95)	258 (10.16)	506 (19.92)	M16
CCT104-120	ø104 (4.09)	ø120 (4.72)	339 (13.35)	80 (3.15)	290 (11.42)	574 (22.59)	M16

*Versions -INS, -FM, -SN, and -CM include EPDM inserts. Stacked versions -DOUB and -TRIP only available with mounting hardware and inserts



ORDERING INFORMATION

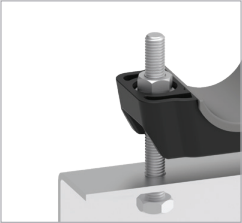
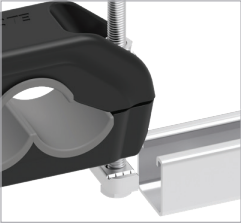
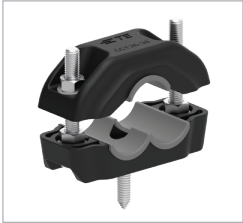

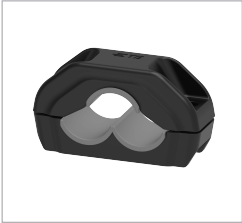
Example: CC26-38-FM is a version of CC26-38 including EPDM inserts and Flat Mount mounting hardware

Size Range	Mounting Options		Examples
CCT15-26	---	Cleat bodies only (without EPDM inserts)	CCT26-38
CCT26-38	INS	with EPDM inserts (no mounting hardware)	CCT26-38-INS
CCT38-50	FM	Flat Mount with EPDM inserts	CCT26-38-FM
CCT50-63	SN	Strut Nut with EPDM inserts	CCT26-38-SN
CCT63-75	CM	Center Mount with EPDM inserts	CCT26-38-CM
CCT75-89			
CCT89-104			
CCT104-120			

PRODUCT DESIGN DATA

Design Data			
Material Type		Polymeric, 30% glass fiber reinforced Nylon	
Material Color		Black	
Material Properties		Zero halogen, red phosphorous free, UL94 V0 self-extinguishing	
Design Specification		IEC 61914:2021	
Operating Temperature Range		-40°C to +120°C (-40°F to +248°F)	
Resistance to Impact		Very heavy (classification according to IEC 61914:2021 Table 5)	
Short Circuit Test		Third-party lab certified in accordance with IEC 61914:2021 sub clause 9.5	
Additional Cable Protection		EPDM inserts available for all sizes	
Technical Data			
Impact Resistance		5 kg (20 J)	IEC 61914:2021 subclause 9.2
Lateral Load Test	Perpendicular Pull	3.5 kN to 28 kN	IEC 61914:2021 subclause 9.3
	Parallel Pull	3.5 kN to 22 kN	
Axial Load Test		0.5 kN to 1.7 kN	IEC 61914:2021 subclause 9.4
Resistance to Electrodynamic Forces*	CC15-26 to CC100-135	18.5 kN/m (two short circuits 50 kA @ 600 mm spacing) to 43.2 kN/m(one short circuit 160 kA @ 600 mm spacing)	IEC 61914:2021 subclause 9.5
UV Resistance	Xenon-arc	700 h	IEC 61914:2021 subclause 11.1
	UVB 313 cycle 3	5000 h	ASTM G154
Needle Flame Test		120 s	IEC 61914:2021 subclause 10.1
Glow Wire Test (960° GWT)		30 s	IEC 60695-2

MOUNTING OPTIONS

				
FLAT MOUNT VERSION	STRUT NUT VERSION	CENTER MOUNT VERSION	CABLE CLEAT ONLY	CABLE CLEAT WITH INSERT
Used when installing on a mounting plate.	Used where access to the end of the mounting rail is not possible.	Used where fixing the cleat through the center is needed.	Can be upgraded to any mounting variant.	For extra grip and cable protection.

Learn more: [TE.com/energy](https://www.te.com/energy)

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