

CABLE CLEATS - SINGLE

POLYMERIC FLAME-RETARDANT VO MATERIAL



ROBUST DESIGN FOR STRONG MECHANICAL FORCE AND SECURE CABLES 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 to the cables.

The simplified design ensures for 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 single cable cleats are designed to accommodate cables with outer diameters up to 220 mm (4.72 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 trefoil, dual, and stacked versions.

APPLICATIONS

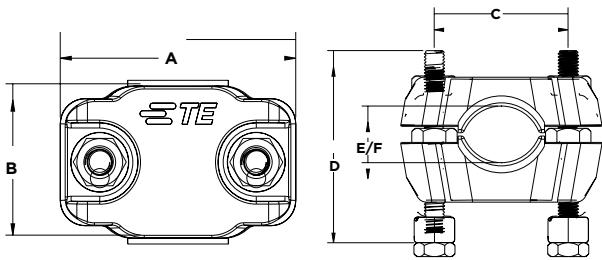
- Substation Solutions
- Underground Power Networks
- Wind Energy Solutions
- Data Center Power System Solutions

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 sub-clause 11.1 and ASTM G154

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

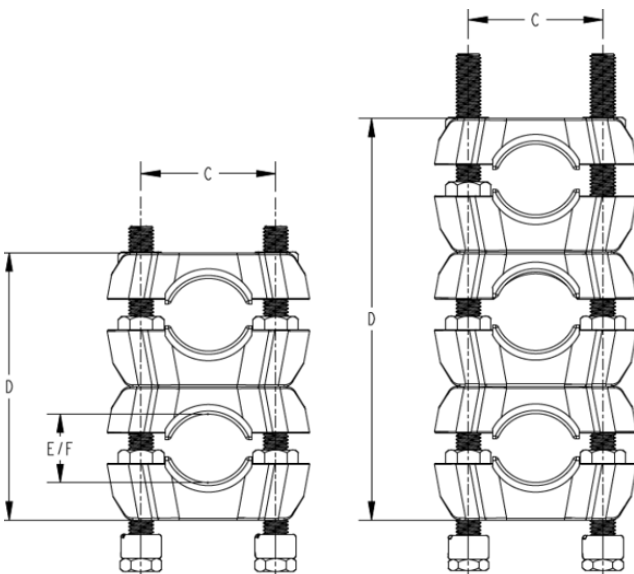
Size Range	Min Cable E	Max Cable F	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D	Screw Size
	With EPDM inserts		Without EPDM inserts						
CC15-26	ø15 (0.59)	ø26 (1.02)	ø19 (0.75)	ø30 (1.18)	87 (3.42)	55 (2.16)	56 (2.20)	53 (2.20)	M10
CC26-38	ø26 (1.02)	ø38 (1.5)	ø27 (1.06)	ø42 (1.65)	96 (3.78)	60 (2.36)	64 (2.52)	70 (2.76)	M12
CC38-50	ø38 (1.5)	ø50 (1.97)	ø39 (1.53)	ø54 (2.12)	114 (4.49)	60 (2.36)	80 (3.15)	85 (3.35)	M12
CC50-75	ø50 (1.97)	ø75 (2.95)	ø51 (2.00)	ø79 (3.11)	136 (5.35)	65 (2.56)	100 (3.93)	115 (4.53)	M12
CC75-100	ø75 (2.95)	ø100 (3.93)	ø76 (2.99)	ø104 (4.09)	164 (6.45)	70 (2.76)	126 (4.96)	150 (5.90)	M12
CC100-135	ø100 (3.93)	ø135 (5.31)	ø101 (3.97)	ø139 (5.47)	200 (7.87)	80 (3.15)	160 (6.30)	190 (7.48)	M12
CC135-175	ø135 (5.31)	ø175 (6.88)	ø139 (5.47)	ø179 (7.04)	266 (10.47)	91 (3.58)	217 (8.54)	237 (9.33)	M16
CC175-220	ø175 (6.88)	ø220 (8.66)	ø179 (7.04)	ø224 (8.82)	313 (12.32)	102 (4.01)	261 (10.28)	299 (11.77)	M16



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

Size Range	Min Cable E	Max Cable F	Length A	Depth B	Bolt Hole Center C	Max Installed Height D -DOUB	Max Installed Height D -TRIP	Screw Size
	With EPDM inserts*							
CC15-26	ø15 (0.59)	ø26 (1.02)	87 (3.42)	55 (2.16)	56 (2.20)	106 (4.17)	159 (6.25)	M10
CC26-38	ø26 (1.02)	ø38 (1.5)	96 (3.78)	60 (2.36)	64 (2.52)	140 (5.51)	210 (8.27)	M12
CC38-50	ø38 (1.5)	ø50 (1.97)	114 (4.49)	60 (2.36)	80 (3.15)	170 (6.69)	255 (10.04)	M12
CC50-75	ø50 (1.97)	ø75 (2.95)	136 (5.35)	65 (2.56)	100 (3.93)	230 (9.06)	345 (13.58)	M12
CC75-100	ø75 (2.95)	ø100 (3.93)	164 (6.45)	70 (2.76)	126 (4.96)	300 (11.81)	450 (17.72)	M12
CC100-135	ø100 (3.93)	ø135 (5.31)	200 (7.87)	80 (3.15)	160 (6.30)	380 (14.96)	570 (22.44)	M12
CC135-175	ø135 (5.31)	ø175 (6.88)	266 (10.47)	91 (3.58)	217 (8.54)	474 (18.66)	711 (27.99)	M16
CC175-220	ø175 (6.88)	ø220 (8.66)	313 (12.32)	102 (4.01)	261 (10.28)	598 (23.54)	897 (35.31)	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

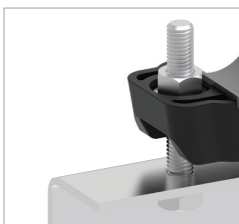
Size Range	Mounting Options		Examples
CC15-26	---	Cleat bodies only (without EPDM inserts)	CC26-38
CC26-38	INS	with EPDM inserts (no mounting hardware)	CC26-38-INS
CC38-50	FM	Flat Mount with EPDM inserts	CC26-38-FM
CC50-75	SN	Strut Nut with EPDM inserts	CC26-38-SN
CC75-100	CM	Center Mount with EPDM inserts	CC26-38-CM
CC100-135			
CC135-175			
CC175-220			

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	9.0 kN to 25 kN	IEC 61914:2021 subclause 9.3
	Parallel Pull	1.8 kN to 18 kN	
Axial Load Test		0.5 kN to 1.6 kN	IEC 61914:2021 subclause 9.4
Resistance to Electrodynamic Forces*	CC15-26 to CC100-135	8.9 kN/m (two short circuits 74 kA @ 900 mm spacing) to 32.5 kN/m(one short circuit 219 kA @ 900 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

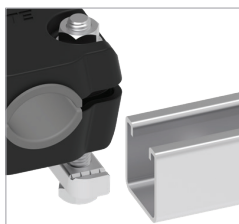
*Tests for resistance to electrodynamic forces for sizes CC135-175 and CC175-220 can be performed upon request, subject to prior alignment with the customer and the project's scope.

MOUNTING OPTIONS



FLAT MOUNT VERSION

Used when installing on a mounting plate.



STRUT NUT VERSION

Used where access to the end of the mounting rail is not possible.



CENTER MOUNT VERSION

Used where fixing the cleat through the center is needed.



CABLE CLEAT ONLY

Can be upgraded to any mounting variant.



CABLE CLEAT WITH INSERT

For extra grip and cable protection

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

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