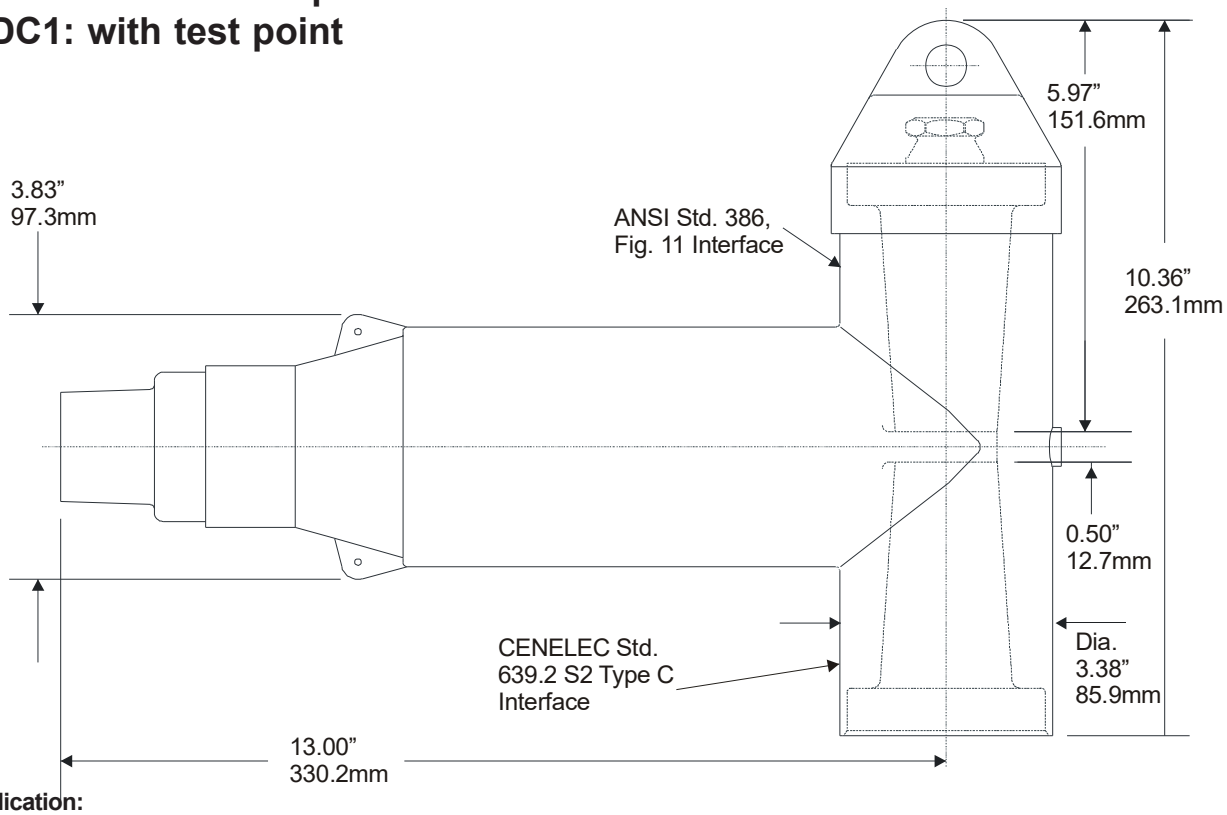
SPECIFICATION SHEET

Description
15/25/28kV 630A Deadbreak Connector

Product Series
TDC

TDC0: without test point
TDC1: with test point



Application:

The CableMate TDC 15/25/28kV, 630/600A product series is a premolded deadbreak connector made out of peroxide-cured EPDM rubber. It is designed to provide fully shielded, deadfront submersible cable connections to apparatus such as transformers, switchgear and switches. It is designed for use on solid dielectric cable with diameter over insulation from 16.3 mm (0.64") up to 49.1 mm (1.94") and copper or aluminum conductor from 35 mm2 (#2 AWG) up to 800 mm2 (1250 kcmil). When used on metallic tape shield or drain wire cable, a CableMate GD1 or GD2 grounding device can be provided for cable jacket sealing and grounding. The TDC meets the requirements of ANSI/IEEE standard 386 – 2006. It has an ANSI 386 Fig. 11 compatible interface on one side and a CENELEC type C compatible interface on the other side for use on 6/10(12) kV, 6.35/11(12) kV, 8.7/15 (17.5) kV, 12/20 (24) kV systems with apparatus bushings with a Type C interface. It is available with or without a capacitance test point. The TDC is rated for 1250A continuous current when supplied with the available copper insulating plug, copper stud, copper crimp connector and mated with a 1250A rated apparatus bushing.

Ratings Per ANSI/IEEE Standard 386	
Description	**Rating**
Standard Voltage Class	15/25/28 kV
Maximum Continuous Voltage Phase-to-Phase	28 kV
Maximum Continuos Voltage Phase-to-Ground	16.2 kV
BIL and Full Wave Crest (1.2 x 50 µs wave)	140 kV
60Hz AC One Minute Withstand (rms)	45 kV
DC 15 Minute Withstand	84 kV
AC Corona Extinction @ 3p.C.sensitivity	21.5 kV
Continuous Current (rms)	630 A
Short Time Current Rating at 0.17 s (rms)	25 kA sym

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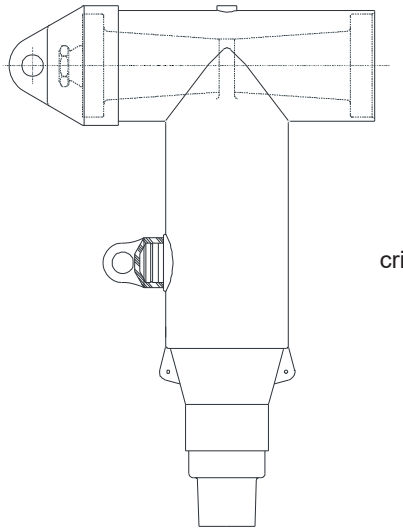
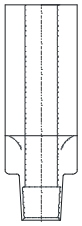


TDC1 with test point housing with insulating plug

crimp connector



cable adapter

Ordering Instruction:

Step 1:
Specify TDC with test point (1) or without (0) test point.

Step 2 (From Table H):
Determine the insulation diameter of the cable. Select the cable adapter code that best fits the insulation diameter from Table H.

Step 3 (From Table C):
Using Table C choose the proper crimp connector code according to the conductor size of the cable. (Aluminum crimp connector can be used on either aluminum or copper conductor, copper crimp connector can only be used on copper conductor.)

Ordering Example:

The catalog number for a 15/25/28kV, 630A deadbreak connector with test point for 95 mm^2 aluminum conductor cable, with an insulation diameter of 22.0 mm (0.87") is TDC1H02A09. The catalog number for a 900A rated 15/25/28 kV deadbreak connector without test point for 120 mm^2 copper conductor cable with an insulation diameter of 27.5 mm (1.08") is TDC0H04C10.

Ordering Instruction: TDC

Test Point	
with	1
without	0

Table H

Cable Insulation Dia. Range		Cable Adapter Code
mm	Inches	
16,3 - 20,8	0.64 -0 .82	H01
19,3 - 24,1	0.76 - 0.95	H02
21,6 - 26,7	0.85 – 1.05	H03
24,9 - 30,0	0.98 – 1.18	H04
27,7 - 33,3	1.09 – 1.31	H05
30,0 - 37,2	1.18 - 1.47	H06
32,5 - 36,3	1.28 - 1.43	H07
34,8 - 41,4	1.37 - 1.63	H08
38,5 - 45,2	1.52 - 1.78	H09
43,8 - 49,1	1.73 - 1.94	H10

Table C

AWG/MCM		IEC	Conn. Code	
STR	COMP	mm^2	AL	Cu
3	2	25	A04	C04
2	1	35	A05	C05
1	1/0	38/50	A06	C06
1/0	2/0	60	A07	C07
2/0	3/0	70	A08	C08
3/0	4/0	95	A09	C09
4/0	250	120	A10	C10
250	300	--	A11	C11
300	350	150	A12	C12
350	400	185	A13	C13
400	450	240	A14	C14
450	500	250	A15	C15
500	600	300	A16	C16
550	650	--	A17	C17
600	700	325	A18	C18
650	750	400	A19	C19
750	800	--	A21	C21
800	--	--	A22	C22
--	1000	500	A23	C23
1000	--	--	A24	C24
1100	--	630	A25	C25
1250	1500	--	A27	C27

Example: A TDC1H02A09 connector kit contains the following:

Description:	Catalog No.:
1 - TDC1 housing	TDC1H
1 - Connecting stud	TDCSC
1 - Crimp connector	TDCA09
1 - Insulating Plug (w/cap)	TDPC
1 - Cable adapter	TDAH02
3 - Silicone lubricant packet	SLG
1 - Installation instruction	
1 - Crimp chart	

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