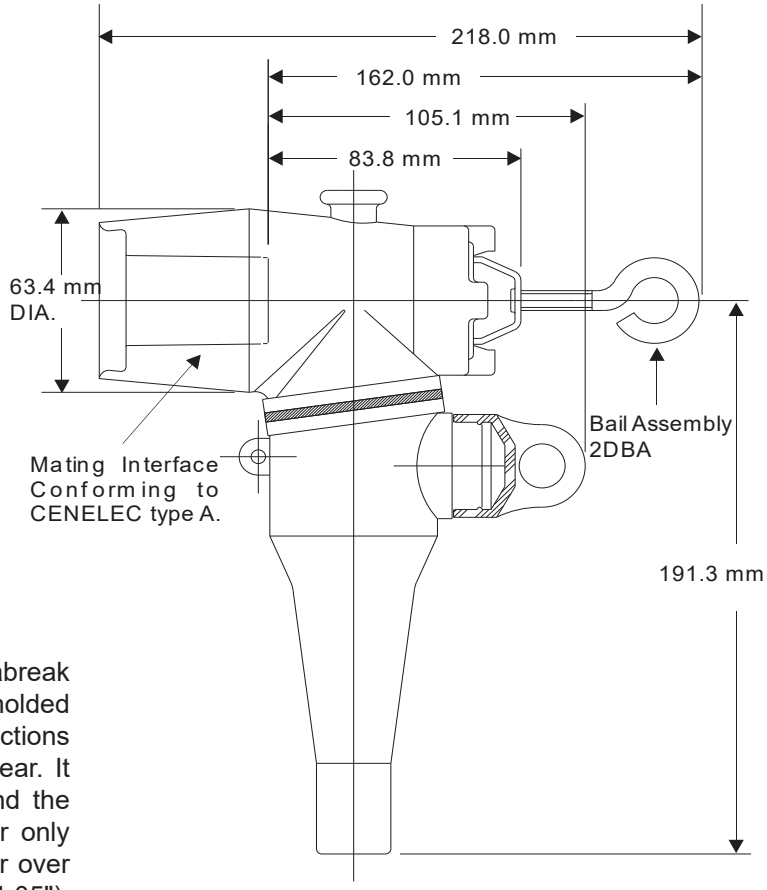
SPECIFICATION SHEET

Description	Product Series
24kV 250A Wide Range Deadbreak Connector	2DBE1E



Application:

The CableMate 2DBE1E Wide Range Deabreak Connector is a fully-shielded, insulated, premolded deabreak connector for submersible cable connections to apparatus such as transformers and switchgear. It is designed for use on solid dielectric cable and the extra wide cable range taking design allows for only 3 different sizes to accommodate cable diameter over insulation from 13.5mm (0.53") up to 26.7mm (1.05"). Safety features include a bail assembly, integral voltage test point and standard operating eye for de-energized operation using standard hot stick tools. It is designed with a interface conforming to CENELEC type A for terminating to 24kV, 250A deadbreak bushings, inserts, junctions and other accessories.

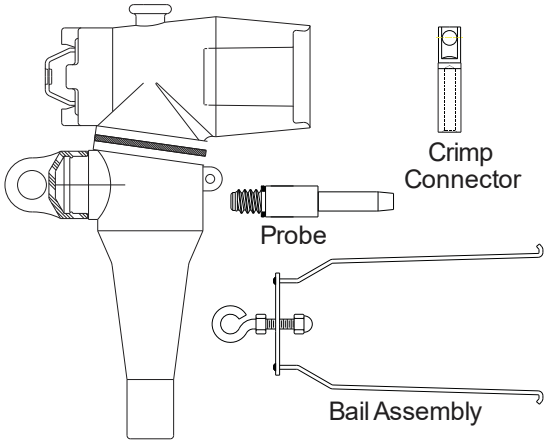
Features:

- 24kV, 250 A deadbreak connector complete with bail assembly for secure operation.
- Fully shielded, fully submersible molded rubber housing.
- 100% peroxide-cured EPDM rubber insulation and semi-conductive shield.
- Non-corrosive, capacitively coupled voltage test point with removable protective cap.
- Provision for hot stick operation.
- Provision for ground wire connection.
- Wide cable range with minimum number of sizes.

Rating per CENELEC HD629.1 and IEC60502-4	
Description	**Rating**
Standard Voltage Class	24 kV
BIL and Full Wave Crest (1.2 x 50 µs wave)	125 kV
60Hz AC 5 Minute Withstand (rms)	54 kV
AC Corona Extinction @ 1p.C.sensitivity	19 kV
Continuous Current (rms)	250 A
Overload Current (8 hrs. per 24 Hrs period)	300 A
Short Time Current Rating at 1 s (rms, sym)	12.5 kA

25kV 250A Wide Rage Deadbreak Connector

Product Series
2DBE1E



2DBE1E Housing

Ordering Instruction:

Step 1 (From Table H):
Determine the insulation diameter of the cable. Select the housing size code that best fits the insulation diameter from Table H.

Step 2 (From Table C):
Using Table C choose the proper crimp connector code according to the conductor size of the cable. The bi-metal crimp connector can be used on either aluminum or copper conductor. Copper crimp connector can only be used on copper conductor.

2DBE1E

Table H

Cable Insulation Dia. Range		Housing Size Code
mm	Inches	
13,5 - 16,5	.530 - .650	HW0
15,9 - 20.8	.625 - .820	HW1
19,3 - 26,7	.760 - 1.05	HW2

Table C

AWG/MCM		IEC	Cond. Code	
STR	COMP	mm²	Bi-Metal	Cu
3	2	25	B04	C04
2	1	35	B05	C05
1	1/0	38/50	B06	C06
1/0	2/0	60	B07	C07
2/0	3/0	70	B08	C08
3/0	4/0	95	B09	C09
4/0	250	120	B10	C10

Ordering Example:

The catalog number for a 25kV, 250A deadbreak connector with test point for a 95 mm2 aluminum conductor cable with an insulation diameter of 24.6 mm (0.97") is 2DBE1EHW2B09. The catalog number for the same deadbreak connector with an all-copper crimp connector (for use on copper conductor only) would be 2DBE1EHW2C09.

A CableMate 2DBE1E deadbreak connector kit contains the following:

Description	Catalog Number
1 – Deadbreak elbow housing	2DBE1EHWX
1 – Crimp connector	LACXXX
1 – Probe	2DBEPR
1 – Probe wrench	2DBEWR
1 – Bail assembly	2DBA
1 – Silicone Lubricant packet	SLG
1 – Installation instruction	
1 – Crimp chart	

Table R

Replacement Compression Lug Number				
AWG/MCM		IEC	Cond. Code	
STR	COMP	mm²	Bi-Metal	Cu
3	2	25	LACB04	LACC04
2	1	35	LACB05	LACC05
1	1/0	38/50	LACB06	LACC06
1/0	2/0	60	LACB07	LACC07
2/0	3/0	70	LACB08	LACC08
3/0	4/0	95	LACB09	LACC09
4/0	250	120	LACB10	LACC10

Grounding device package: if a grounding device package is required, please add the following suffix to the end of selected catalog number:
GD1: for drain wire shield cable
GD2: for copper tape shield cable
JSTW2: for concentric neutral wire shield cable OD between 23.0 - 38.1 mm
JSTW6: for concentric neutral wire shield cable OD between 32.0 - 57.0 mm