

250A Deadbreak Straight Receptacle

Up to 24kV



The Elastimold® ESS2 Straight Receptacle is a fully-rated up to 24kV, 250A Class Deadbreak receptacle. It has a standard A interface for connecting up to 24kV, 250A Deadbreak bushing inserts, junctions and other accessories. The ESS2 is equipped with an integral voltage test point.

Features and benefits

- Up to 24kV, 250A Deadbreak Receptacle
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Provision for ground wire connection
- Wide cable range with minimum number of sizes

Applications

Medium voltage dead break applications up to 24kV and 250A using EN50180 & EN50181 Interface A.

Materials

100% peroxide-cured EPDM.

Ratings

Meets IEC 60502-4, CENELEC HD 629.1 S3
 $U_0/U(Um)$

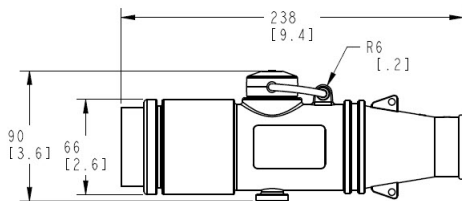
For 6.35/11(12)kV Voltage Class:

6.35kV Phase-to-Ground U_0 – Operating Voltage
 11kV Phase-to-Phase U
 95kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
 28.5kV AC – Five minute withstand
 Max 10 pC at 12.5 kV
 250A – Continuous

For 12/20(24)kV Voltage Class:

12kV Phase-to-Ground U_0 – Operating Voltage
 20kV Phase-to-Phase U
 125kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
 54kV AC – Five minute withstand
 Max 10 pC at 24 kV
 250A – Continuous

Interface A: EN50180 and EN50181



Voltage Class	Certified Cable Conductor Size MIN
12kV	16 mm ²
24kV	35 mm ²

Part Number Selection

1. Determine Umax needed.
2. Choose code relevant to cable size (mm²).
3. Choose code for armor type.
4. Choose the correct code for the cable adapter being used.
5. Choose Differentiator code if applicable.

Example:

The ordering number for an Elbow Connector with 24kV Umax, 150 mm², unarmored, with J cable adapter, and AA as differentiator is ESS25JAJ(AA through ZZ if applicable). Cable adapter selection is determined based on the insulation diameter of the cable.

Umax	
Code	Type
5	Up to 24 kV

Cable Conductor MAX mm ² Code	
Code	mm ²
J	150

Cable Type Code	
Code	Type
A	Unarmored

Cable Adapter Code	
Code	Cable Adapter
Letters A through Z	

Differentiator (if applicable)	
Code	Phases
Letters AA through ZZ	

Cable Adapter	Cable Insulation Diameter mm		Cable Insulation Diameter Inches	
	MIN	MAX	MIN	MAX
E	13.46	17.27	0.53	0.68
F	16.26	20.83	0.64	0.82
G	19.30	24.13	0.76	0.95
H	21.59	26.67	0.85	1.05
J	24.89	29.97	0.98	1.18

ESS2	Umax	Cable Conductor MAX mm ² Code	Cable Type Code	Cable Adapter Code	Differentiator Code (if applicable)
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The 1 Phase kit contains the following

*: Last letter in part number corresponds to cable adapter size. Example of F size Cable Adapter: ESX6-MAAF

**:. Connector should be sized accordingly as shown in Cable Conductor MAX mm² Code table page 2

1 Phase kit		
Quantity	Description	Part #
1	250A Insulated Straight	ESS2-MIB1
1	VD Cap	ESX1-MTC1
1	Cleaning Cloth	ECX1-CCL1
1	Earthing Wire Assembly	ESX1-GKA1
2	Bailing Ring	ESS2-CBR1
2	Hook Bolt M4	ESX2-CBH1
2	Wing Nut M4 DIN315 A2	ESX2-CBN1
2	Compound Lube	82-08
1	Shear Bolt Contact 250A Straight	ESS2-CSBA**
1	Cable Adapter 250A Size	ESX2-MAAF*
2	Gloves	ECX1-GLO1
1	PVC Tape	ECX1-PTA1
1	Abrasive Paper	ECX1-APA1
1	Instruction Sheet 250A	ESX2-CUM1
1	Mastic Tape	ECX1-MTA1/2
1	Bleeder Line	ECX1-BLN1
1	Cold Shrink Tube 1/2	ECX1-CST1/2
1	Screen Wire Lug 12mm Hole	ECX1-GWL1
2	Washer M4 DIN125A A2	ESX1-CWA1