

3M™ IEC-Separable Connectors

Asymmetrical T- Type Connectors 630A 1250A Umax 24kV

IEC-Separable Product Family

Technical Datasheet



Product Description

The IEC-Separable 630A and -1250A Kit Series consist of an EPDM Asymmetrical T-Type Separable Connector. The assembly is touch safe, has an integrated Silicone Adapter Tube as refractive stress controlling part and an integrated capacitive test point in the insulation plug. Each kit contains all the necessary components to install Plug-In to a 3-Phase system, including all connection devices.

Applications

These Kits are designed to be installed on wire screened non-armored polymeric insulated cables for voltage classes 6/10 kV ($U_{max} = 12$ kV) up to 12,7/22 kV ($U_{max} = 24$ kV) - 630A / -1250A and applications.

With additional supplementary earthing kits, the installation on cable types with Copper Tape -, Aluminum Tube - or Copper Wire and Aluminium Laminate - screened cables are possible.

The IEC-Separable Connector establishes the connection between any polymeric insulated cable onto transformers, switch gears, motors or other equipment.

Typical Properties

The one-piece design of the Separable Connector is made of EPDM rubber. It guarantees a watertight connection and a long-life span for cable ends. It is suitable for outer cone bushings according to DIN EN 50180 and DIN EN 50181.

Performance Tests

Meets European standard specifications:
Cenelec HD 629.1 S3:2018 (DIN VDE 0278, part 629-1).

Test Reports available on request.

Electrical Ratings	Values
Max. System Voltage	24 kV
Impulse	125 kV
AC Withstand (5 min.)	57 kV
Continuous Current	630 A / 1250 A

User Information

Selection Guide T-Plug

Kit Reference	Amps	Min. Diameter over Primary Insulation (mm)	Voltage Class (U max)		Dimensions (mm)		
			12 kV	24 kV			
			Nominal Cross Section (mm²)*		H	L	W
IEC Separable T-Plug Front							
EE-12-CW1-T-C1-A1-S1 3-Phase 1/CV	630 A	12.5 - 19.5	25-95	----	250	173	73
EE-24-CW1-T-C1-A2-S1 3-Phase 1/CV	630A	17.0 - 25.1	----	25-95	250	173	73
EE-12-CW1-T-C1-B1-S2 3-Phase 1/CV	630A	19.0 - 29.0	120-300	----	250	173	73
EE-24-CW1-T-C1-B2-S2 3-Phase 1/CV	630A	23.6 - 34.6	----	120-300	250	173	73
EE-12-CW1-T-C2-C1-S3 3-Phase 1/CV	1250A	30.0 - 38.5	400-630	----	356	174	93
EE-24-CW1-T-C2-C2-S3 3-Phase 1/CV	1250A	34.0 - 45.0	----	400-630	356	174	93
IEC Separable T-Plug Rear (Sub-T Plug)							
EE-12-CW1-R-C1-A1-S1 3-Phase 1/CV	630A	12.5 - 19.5	25-95	----	250	158	68
EE-24-CW1-R-C1-A2-S1 3-Phase 1/CV	630A	17.0 - 25.1	----	25-95	250	158	68
EE-12-CW1-R-C1-B1-S2 3-Phase 1/CV	630A	19.0 - 29.0	120-300	----	250	158	68
EE-24-CW1-R-C1-B2-S2 3-Phase 1/CV	630A	23.6 - 34.6	----	120-300	250	158	68
EE-12-CW1-R-C2-C1-S3 3-Phase 1/CV	1250A	30.0 - 38.5	400-630	----	356	174	93
EE-24-CW1-R-C2-C2-S3 3-Phase 1/CV	1250A	34.0 - 45.0	----	400-630	356	174	93

* Check if the diameter over primary insulation is in the appropriate range

Selection Guide Supplementary Earthing Kit

Cable Type (Screen)	94-PAE 610-1 AL-CT		94-PAE 620-1 AL-CT		94-PAE 621-1 CW-ALF	
	12 kV max	24 kV max	12 kV max	24 kV max	12 kV max	24 kV max
Copper Tape	up to 400 mm ²	up to 240 mm ²	400-630 mm ²	240-630 mm ²	N/A	N/A
Aluminium Tube	up to 400 mm ²	up to 240 mm ²	400-630 mm ²	240-630 mm ²	N/A	N/A
Copper Wire / Alum. Laminate	N/A	N/A	N/A	N/A	up to 630 mm ²	up to 630 mm ²

Product Identification

3M Asymmetrical T-Type Separable Connector kits are marked with supplier name, cable cross section ranges, voltage class and cable type, storage conditions and manufacturing codes for product traceability.

Shelf Life and storage

The 3M™ Asymmetrical T-Type Separable Connectors have a 60-month shelf life from date of production, stated on the label, when stored in a humidity-controlled storage (-40°C up to 50°C and <70% relative humidity).

Additionally, the expiring date is stated on the carton label.

Additional Information

To request additional product information, see address below.

Legal information

WEEE, RoHS and REACH information

3MTM IEC-Separable are not considered in scope of Directive 2012/19/EU (Waste electrical and electronic equipment (WEEE)) and Directive 2011/65/EU (Restriction of the use of certain hazardous substances in electrical and electronic equipment).

3MTM IEC-Separable do not contain the substances listed in Annex II of 2011/65/EU (RoHS) or REACH SVHC (EC) 1907/2006 (REACH) per June 2025.

Please visit the 3M website or contact your local representative for the latest regulatory status.

Source of Supply

3M Marcallo/Italy

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