

## 430TB/G

### Interface C

#### Compact tee connector for multiple voltage levels

#### Application

Suitable for installation on polymeric insulated medium voltage cables with extruded easy strip conductive screen or bonded extruded conductive screen. For use with other cable types please contact our sales representative.

#### Technical characteristics

- The thick conductive EPDM jacket provides a total safe to touch screen to ensure safety.
- Metal housing available on request.
- Thanks to new materials the 430TB/G connectors are non-size sensitive.
- Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

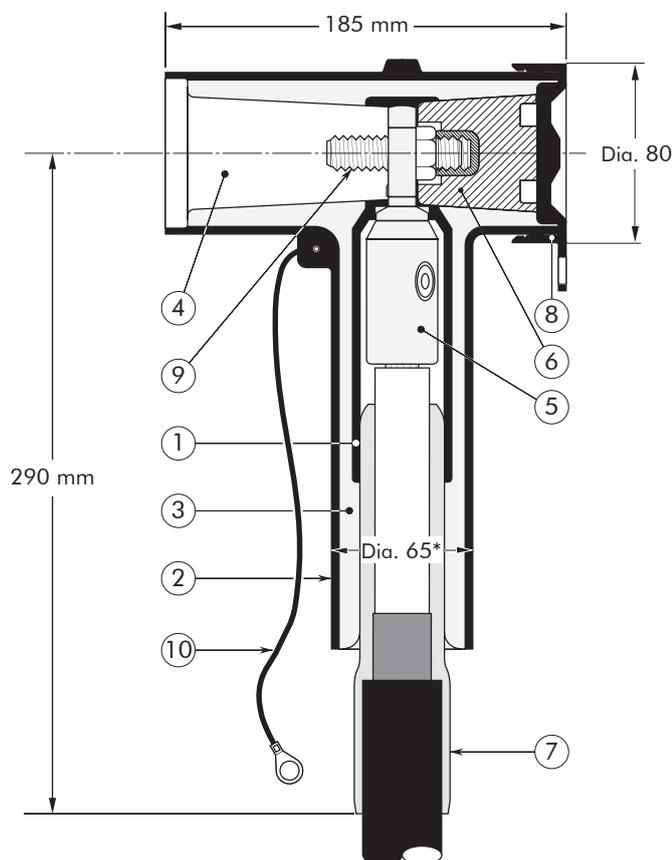
Up to 36 kV  
630 A/1250 A\*\*

$U_0 / U (U_m)$
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV

#### Design

1. Conductive EPDM insert
2. Conductive EPDM jacket
3. Insulating EPDM layer moulded between the insert and the jacket
4. Type C - interface as described by CENELEC EN 50180 and 50181
5. Bolted or crimp conductor contact
6. Basic insulating plug
7. Cable reducer
8. Conductive rubber cap
9. Clamping screw
10. Earth lead

The screen break design enables cable outer sheath testing without removing or dismantling the connector.



\* The indicated diameter is a die dimension. Depending on the conductor cross-section used, a deviation of up to + 5 mm is possible.

#### Specifications and standards

The 430TB/G separable connector meets the requirements of CENELEC HD 629.1. ATEX version can be delivered on request.

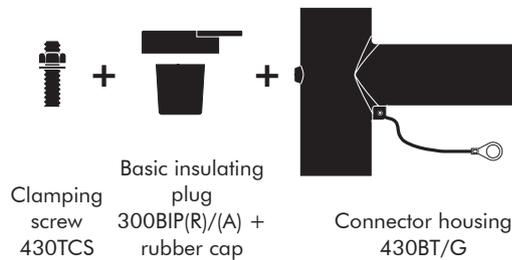
Separable connector type	Nominal voltage $U_0 / U$ (kV)	Current $I_n$ (A)	Conductor cross-section (mm <sup>2</sup> )	
			min.	max.
430TB/G	6/10	630/1250**	25	300
K430TB/G	12/20	630/1250**	35	300
M430TB/G	18/30	630/1250**	50	240

\*\* When installed on an appropriate equipment bushing.

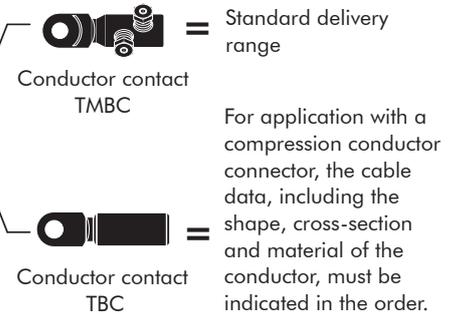
01-12-2014

## Kit contents

The complete (K)(M)430TB/G tee connector kit comprises 3 x the following components:



The kit also comprises:  
 + installation instructions  
 + silicone grease  
 + wipers  
 + screen wire cable lugs



## Ordering instructions

Indicate the part number for multirange application when ordering (see table).

### Order example:

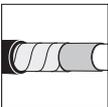
1 compact tee connector kit for 12/20 kV, for 95-240 mm<sup>2</sup> with mechanical conductor connector.

Order according to the table: 1 kit – K430TB/G with part number 49557.

**Note:** The assignment only applies to XLPE-insulated cables (dimensions according to DIN VDE 0276-620) with extruded conductive screen. For use with other cable designs contact our sales representative.

Cross-section (mm <sup>2</sup> )	Dia. over core insulation (mm)		Multirange assignment Ordering part number for (K)(M)430TB/G			
	min.	max.	with mechanical connector			
<b>Nominal voltage U<sub>0</sub>/U 6/10 kV</b>						
25	13.0	15.2	52146			
35	14.1	16.3				
50	15.3	17.5		51201		
70	17.0	19.2				
95	17.9	20.8			52147	
120	19.4	22.8				
150	20.9	24.3				52148
185	22.5	25.9				
240	25.0	28.4				57303
300	27.7	30.4				
<b>Nominal voltage U<sub>0</sub>/U 12/20 kV (K)</b>						
35	18.3	20.5	52149			
50	19.5	21.7				
70	21.2	23.4		52150***		
95	22.8	25.0				
120	23.6	27.0			49557	
150	25.1	28.5				
185	26.7	30.1				57304
240	29.2	32.6				
300	31.2	34.6				53599
<b>Nominal voltage U<sub>0</sub>/U 18/30 kV (M)</b>						
50	23.8	26.7	52940			
70	25.5	28.4				
95	27.1	30.0		57284***		
120	28.6	32.0				
150	30.1	33.5				52941
185	31.7	35.1				
240	34.2	37.6				

\*\*\* Applicable for aluminium conductors up to 150 mm<sup>2</sup>, not applicable for copper conductors.

 <p>For use with copper tape screened cables. Order: Kit MT.</p>	 <p>For use with other cable types. Please contact our representative.</p>	 <p>For outdoor applications.</p>	 <p>If an ATEX certification for connectors up to 12 kV is required, contact our sales representative before ordering.</p>	 <p>All accessories available with mechanical or compression conductor connector.</p>	 <p>When installed on an appropriate equipment bushing: 1250 A continuously.</p>
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## Technical instructions and application information

The data given were determined diligently, but do not release our customers of the duty to carry out tests themselves in order to check the suitability of the products delivered by us for the intended use. We reserve the right to modify characteristic and performance data according to the present state of technology. Processing and use of the products cannot be controlled by us and are therefore exclusively in your field of responsibility.

Our products meet the VDE standards respectively correspond to DIN pages and IEC recommendations.

Attention: Before first design in please contact manufacturer.

The products, described in this catalogue, are designed for connection of energy cable conductors (Class 1 & 2) with description of round solid (RE), round stranded (RM), as well as sector solid (SE), sector stranded (SM) and round stranded compacted (RMV) exclusively on bare conductors. All conductor filling materials like tapes/yarn/powder or similar need to be completely removed before mounting.

A check on basis of the actual existing conductor dimensions by the user is indispensable. This applies also for the application of flexible conductors (Class 5 & 6).

Impact wrenches have to be approved by Nexans! Depending on different conductor material or conductor type, indicated values may differ from test values acc. to IEC 61238-1. The use of fine stranded conductors has to be approved by Nexans Power Accessories Germany GmbH.

Our responsibilities are only those listed in the latest edition of "General Terms and Conditions for the Supply of Products and Services of the Electrical and Electronics Industry". If requested we provide a copy.

Our products are mainly delivered in cartons. We only use package materials able to be recycled due to the latest packing system. Collapsible cardboard boxes are not taken back. Please try to order complete standard packages.

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