

300PB/G Coupling connector for 430TB/G

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

Application

Separable coupling connector (bolted type) for dual cable arrangement. It has been designed to be used with 430TB/G separable tee connector.

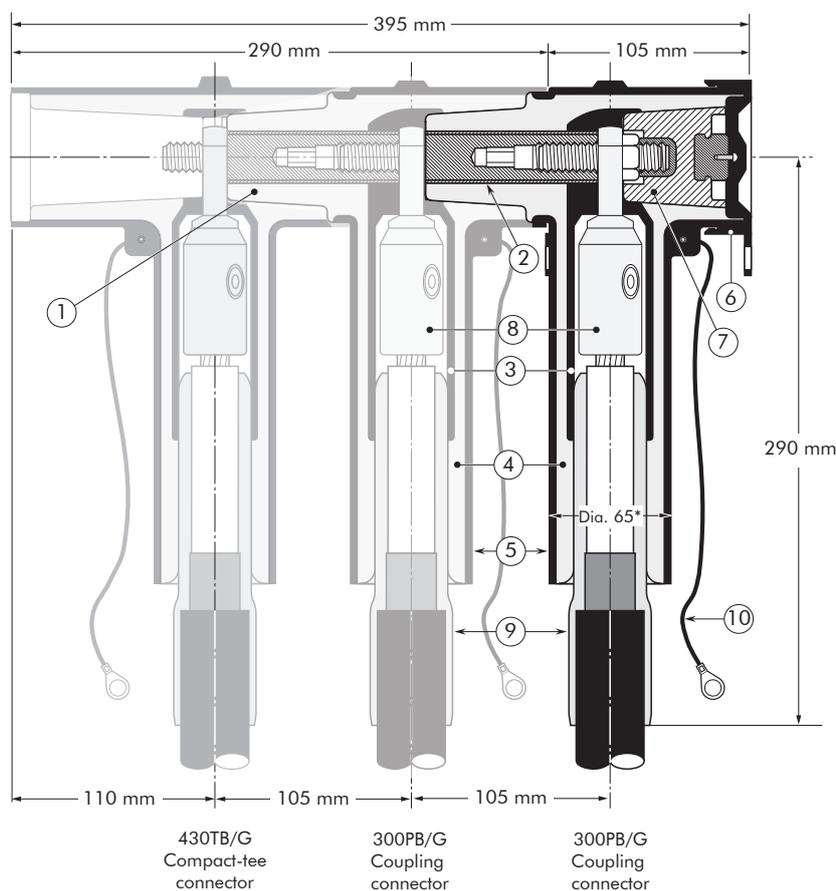
Technical characteristics

- A thick conductive EPDM jacket provides a total safe to touch screen.
- Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

Design

1. Interface designed to fit 430TB/G connector
2. Bus for 300PB/G
3. Conductive EPDM insert
4. Insulating EPDM layer moulded between the insert and the jacket
5. Conductive EPDM jacket
6. Conductive EPDM cap
7. Basic insulating plug (with VD point)
8. Bolted or crimp conductor contact
9. Cable reducer
10. Earthing 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

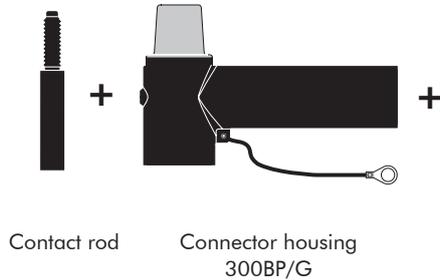
The 300PB/G coupling connector meets the requirements of CENELEC HD 629.1. ATEX version can be delivered on request.

Separable connector type	Nominal voltage U_0 / U (kV)	Current I_n (A)	Conductor cross-section (mm ²)	
			min.	max.
300PB/G	6/10	630/1250**	25	300
K300PB/G	12/20	630/1250**	35	300
M300PB/G	18/30	630/1250**	50	240

** When installed on an appropriate equipment bushing.

Kit contents

The complete (K)(M)300PBM/G coupling connector kit comprises 3 x the following components:



Contact rod

Connector housing
300BP/G

Cable reducer
430CA

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



Conductor
contact
TMBC

= Standard delivery
range



Conductor
contact TBC

= For application with a
compression conductor con-
nector, the cable data, includ-
ing the shape, cross-section
and material of the conductor,
must be indicated in the order.

Ordering instructions

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

Order example:

1 coupling connector kit for 12/20 kV, for 95-240 mm² with mechanical conductor connector.

Order according to the table: 1 kit – K300PB/G with part number 53005.

Note: The classification does only apply for polymeric insulated XLPE cables (dimensions acc. to DIN VDE 0276 620) with extruded conductive screen. Please contact our sales representative, when using other cable types.

Cross-section (mm ²)	Dia. over core insulation (mm)		Multirange assignment Ordering part number for (K)(M)300PB/G			
	min.	max.	with mechanical connector			
Nominal voltage U₀/U 6/10 kV						
25	13.0	15.2	52999			
35	14.1	16.3				
50	15.3	17.5				
70	17.0	19.2		53000		
95	17.9	20.8				
120	19.4	22.8			53001	53002
150	20.9	24.3				
185	22.5	25.9				57305
240	25.0	28.4				
300	27.7	30.4				
Nominal voltage U₀/U 12/20 kV (K)						
35	18.3	20.5	53003			
50	19.5	21.7				
70	21.2	23.4		53004***		
95	22.8	25.0				
120	23.6	27.0			53005	57306
150	25.1	28.5				
185	26.7	30.1				53602
240	29.2	32.6				
300	31.2	34.6				
Nominal voltage U₀/U 18/30 kV (M)						
50	23.8	26.7	52986			
70	25.5	28.4				
95	27.1	30.0		57285***		
120	28.6	32.0				
150	30.1	33.5			52987	
185	31.7	35.1				
240	34.2	37.6				

*** Applicable for aluminium conductors up to 150 mm², not applicable for copper conductors.

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

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