



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00002HX**  
Revision No:  
**2**

## This is to certify:

**That the Termination and Joint for Cable**

with type designation(s)  
**480TB, 484TB, 489TB, 800PB, 804PB, 809PB, 784TB, 909TB, 909PB, 200SR and 200LR**

Issued to  
**NEXANS network solutions NV**  
**Erembodegem, Belgium**

is found to comply with  
**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Products approved by this certificate are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2023-05-03**

for **DNV**

This Certificate is valid until **2027-12-31**.

DNV local unit: **Belgium CMC**

Approval Engineer: **Nicolay Horn**

**Frederik Tore Elter**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

Medium Voltage Outdoor / Indoor Connectors for 10 (12) kV, 15 (17.5) kV, 20 (24) kV, 30 (36) kV & 36 (42) kV, 60-69 (72.5) kV. Types: 480TB, 484TB, 489TB, 800PB, 804PB, 809PB, 909TB, 909PB, 784TB, 200SR and 200LR

### 480TB Separate tee shape connector

Termination type	Voltage Um (kV)	Current Ir* (A)	Conductor size (mm <sup>2</sup> )	
			min	max
480TB/G	12	630	16	300
K480TB/G	24	630	16	300
M480TB/G	36	630	35	240
P480TB/G	42	630	35	240

\*When using a copper (CU-2) or a bolted (UN-5) connector contact Ir = 1250A

### 484TB Separate tee shape connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
484TB/G	12	1250	50	630
K484TB/G	24	1250	35	630
M484TB/G	36	1250	35	630
P484TB/G	42	1250	35	630

### 489TB Separate tee shape connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
489TB/G	12	1250	630	1200
K489TB/G	24	1250	630	1200
M489TB/G	36	1250	630	1200
P489TB/G	42	1250	630	1200

### 800PB Separate coupling connector

Termination type	Voltage Um (kV)	Current Ir* (A)	Conductor size (mm <sup>2</sup> )	
			min	max
800PB/G	12	630	16	300
K800PB/G	24	630	16	300
M800PB/G	36	630	35	240
P800PB/G	42	630	35	240

\*When using a copper (CU-2) or a bolted (UN-5) connector contact Ir = 1250A

### 804PB Separate coupling connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
804PB/G	12	1250	50	630
K804PB/G	24	1250	35	630
M804PB/G	36	1250	35	630
P804PB/G	42	1250	35	630

**809PB** Separate coupling connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
809PB/G	12	1250	630	1200
K809PB/G	24	1250	630	1200
M809PB/G	36	1250	630	1200
P809PB/G	42	1250	630	1200

**784TB** Separate tee shape connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
784TB/G	12	800 /1250	50	630
K784TB/G	24	800 /1250	35	630
M784TB/G	36	800 /1250	35	630
P784TB/G	42	800 /1250	35	630

**909TB** Separate tee shape connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
909TB/G	12	2500	500	1200
K909TB/G	24	2500	400	1200
M909TB/G	36	2500	240	1200
P909TB/G	42	1250	240	1200
R909TB/G	72.5	1250*	95	1200

\* When installed on an appropriate equipment bushing

**909PB** Separate coupling connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
909PB/G	12	2500	500	1200
K909PB/G	24	2500	400	1200
M909PB/G	36	2500	240	1200
P909PB/G	42	1250	240	1200
R909PB/G	72.5	1250*/1800**	95	1200

\* When installed on an appropriate equipment bushing

\*\* Daisy chain arrangement

**200SR** Separate straight connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
200SR-12	12	250	25	95
200SR-16	24	250	25	95
200SR-16-120.150*	12	250	120	150
200SR-19-120.150*	24	250	120	150

\* Available as options

**200LR** Separate elbow connector

Termination type	Voltage Um (kV)	Current Ir (A)	Conductor size (mm <sup>2</sup> )	
			min	max
200LR-12	12	250	25	95
200LR-16	24	250	25	95
200LR-16-120.150*	12	250	120	150
200LR-19-120.150*	24	250	120	150

\*Available as options

**Application/Limitation**

Installation must be done in accordance with the installation instructions.  
 Use in net with voltages above 15 (17.5) kV to be accepted case by case.

**Type Approval documentation**

**Technical info:**

EUROMOLD Catalogue 2022. 909TB Interface F Tee Connector, 909PB Coupling connector for 909TB, 480TB, 484TB and 489TB Interface C Tee Connector, 800PB, 804PB, 809PB Coupling connectors for 480TB, 484TB & 489TB, 784TB Interface E-5/8" Tee Connector, 152SR Interface A Straight Connector and 158LR Interface A Elbow Connector, all datasheets from Nexans.

**Test reports:**

Electrical Testing Laboratory Test Reports nos. TE 213 20 13 dated 2020-04-06, TE 213 20 14 dated 2010-04-06, TE 213 19 04 dated 2010-05-07, TE 213 18 08 dated 2018-07-02, TE 213 18 27 dated 2019-04-19 TE 213 09 14 dated 2010-05-17, TE 213 11 05 dated 2011-05-26, TE 213 14 12 dated 2015-01-27, TE 213 13 16 dated 2014-02-05, TE 213 15 02 dated 2015-06-19, TE 213 15 16 dated 2016-04-05, TE 213 16 16 dated 2017-12-04 & TE 213 18 07 dated 2018-06-13. RWE Test Certificate no. 09.10.25.256-1 dated 2009-12-20.

**Tests carried out**

Tested according to CENELEC HD 629 and IEC EN 61442 Ed. 2 (03/2005).

**Marking of product**

Nexans – Product Description – Voltage class.

**Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials, and performance
- Ensuring traceability between manufacturer’s product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE