



 **EUROMOLD**

Medium Voltage Smart Connectors & Adapters For ABB Sensors

Catalogue 2024


ELECTRIFY THE FUTURE

NEXANS POWER ACCESSORIES

An essential cog in energy systems

The future will be electric. The present already is. As electrification gathers spaces, network operators are undertaking large-scale projects to extend and modernize the grids. These projects require a wide range of power accessories. Nexans is a leading manufacturer and distributor in this field since more than 60 years, supplying a full range of power accessories to our global customers in about 100 countries.

We connect all types of cables, for high- and medium-voltage installations, and all types of conductors with any cross-section. We provide underground cable junctions, and connect cables to various types of equipment, including transformers and switchgear. Our products are used on both onshore and offshore networks, on wind and solar farms, or in data centers for example.

Our range of products includes EUROMOLD connectors, our cutting-edge EPDM technology, known for its exceptional performance and reliability. We also provide cold and heat shrinkable joints and terminations, developed to be always easier to install and reliable. We pre-assemble ready to install jumpers. And our extensive range of GPH ferrules and lugs, designed to meet the highest standards of quality and durability, are embodied in all our accessories kits or delivered separately.

Nexans is committed to delivering innovative solutions and top-notch products in the field of electrical connections and accessories.

Together, we have the power to electrify the future!

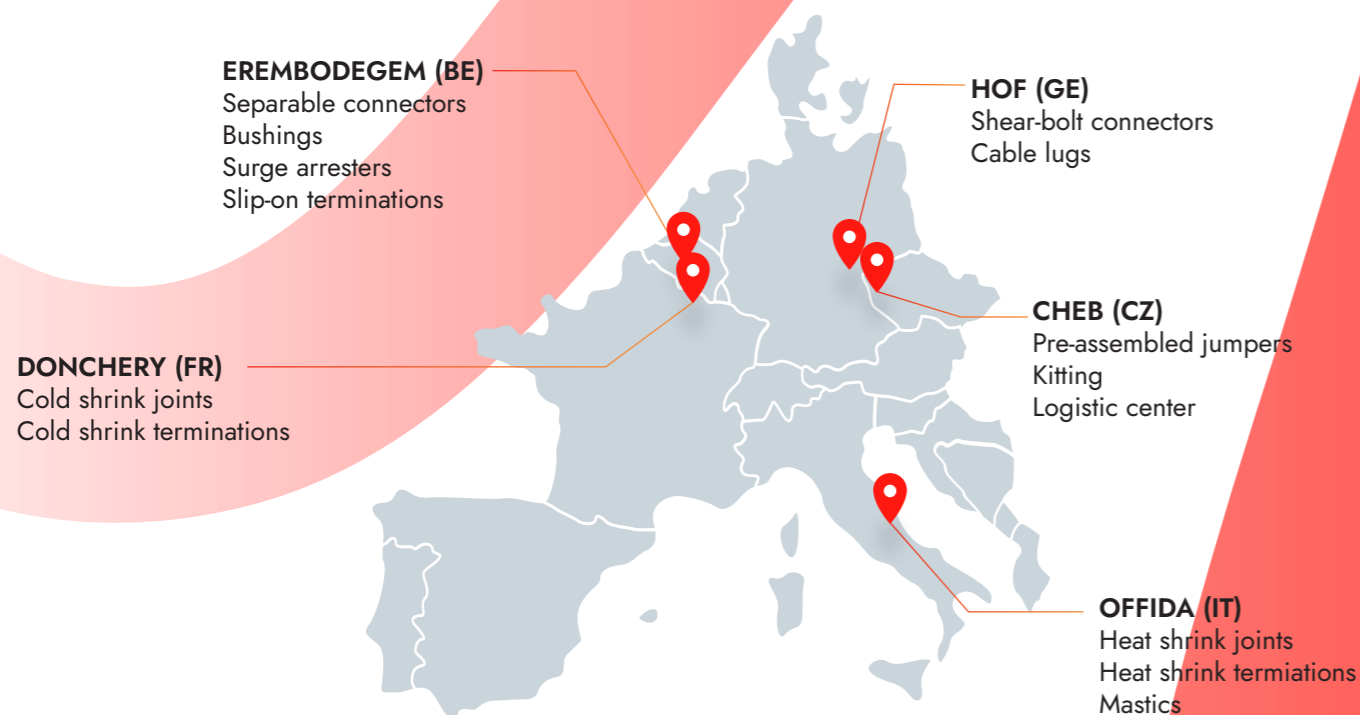
Laboratory accreditation

Since June 2000, Nexans independent ELAB laboratory obtained the BELAC accreditation no.144-TEST conform with the European standards for laboratories ISO 17025 for electrical testing of low and medium voltage cable accessories according to the international standards EN 50393, IEC 60502-4, IEC 61442 and HD 629.

ISO 9001 Certificate

Since 1992, Nexans commitment to quality is demonstrated by its ISO 9001 certification.

At Nexans, we are proud of our manufacturing and kitting sites



Medium voltage separable connectors



- Produced in **Europe**
- 100% routine tested
- Only high-quality material is used
- **Made 100% of EPDM rubber**
- All connectors are tested conform to the CENELEC **HD629.1** standard. Test reports available upon demand
- Degree of protection **IP67**: dust tight & immersion in water

- A complete range (12 kV - 72 kV)
- For cross sections from **95 mm² to 1200 mm²**
- Temperature range from **-60°C to +130°C**
- A range of associated coupling connectors and surge arresters all with compact design
- Offers many test options: capacitive test point, cable tests ...



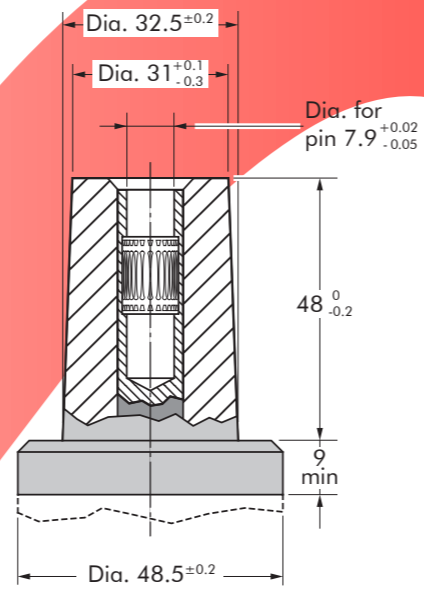
MEDIUM VOLTAGE SMART CONNECTORS & ADAPTERS

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Interface C - Smart connectors
Interface E - Smart connectors

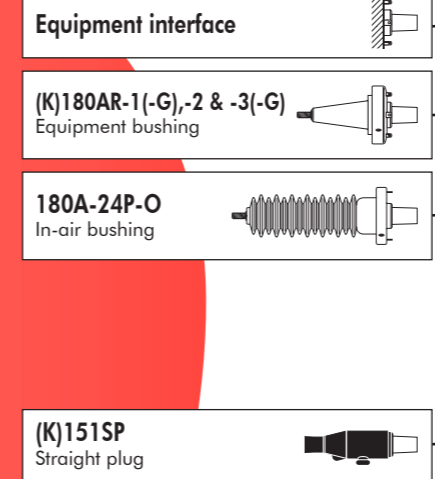
INTERFACE A1

Dimensions according to European CENELEC EN 50180 and 50181 (in mm).

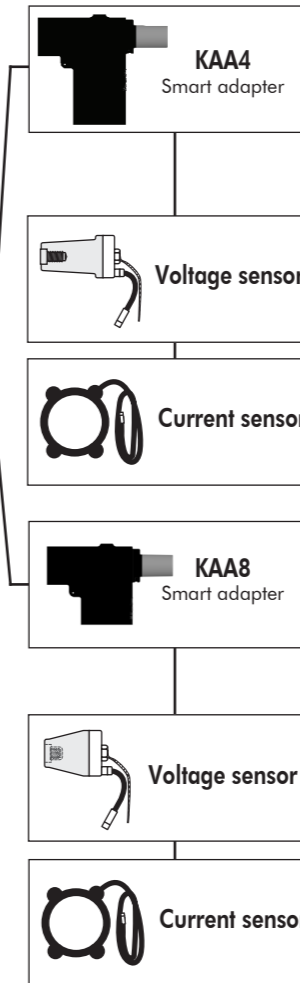


CONNECTING POSSIBILITIES – SMART ADAPTERS

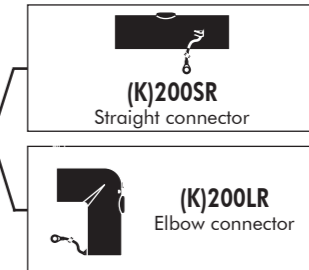
BUSHINGS / ACCESSORIES / CONNECTOR



SMART ADAPTER



CONNECTORS / ACCESSORIES



While every care is taken to ensure that the information contained in this publication is correct, no legal responsibility can be accepted for any inaccuracy. Nexans Network Solutions N.V. - Div. Euromold reserves the right to alter or modify the characteristics of its products described in this catalogue as standards and technology evolve.

KAAx SMART ADAPTER WITH ABB KEVA/KECA SENSORS

APPLICATION

Intelligent adapter factory fitted with voltage sensor enabling a unique solution for voltage measurement. Designed for easy installation on MV/LV transformers, for new implantations or retrofiting, and requiring no cable modification. To be used with Interface A 250 A separable connectors and equipment bushings. Sensor can be interfaced with any IEC 61869-10 and IEC 61869-11 complaint Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

DESIGN

Smart Adapter comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer.
4. Type A interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. Earthing lead.
7. ABB KEVA voltage sensor.
8. Sensor secondary cable.

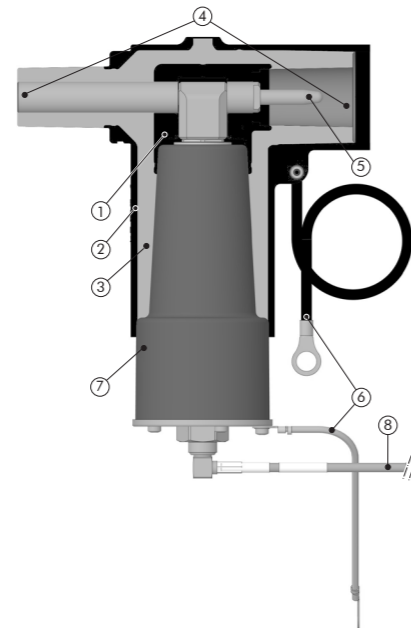
SPECIFICATIONS AND CABLE STANDARDS

The KAA smart adapter meets the requirements of CENELEC HD 629.1.

The KEVA and KECA sensors meet the requirements of IEC61869-10 and -11.

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.
- Each adapter assembly is tested for AC withstand and partial discharge prior to leaving the factory.



INTERFACE A SMART ADAPTER



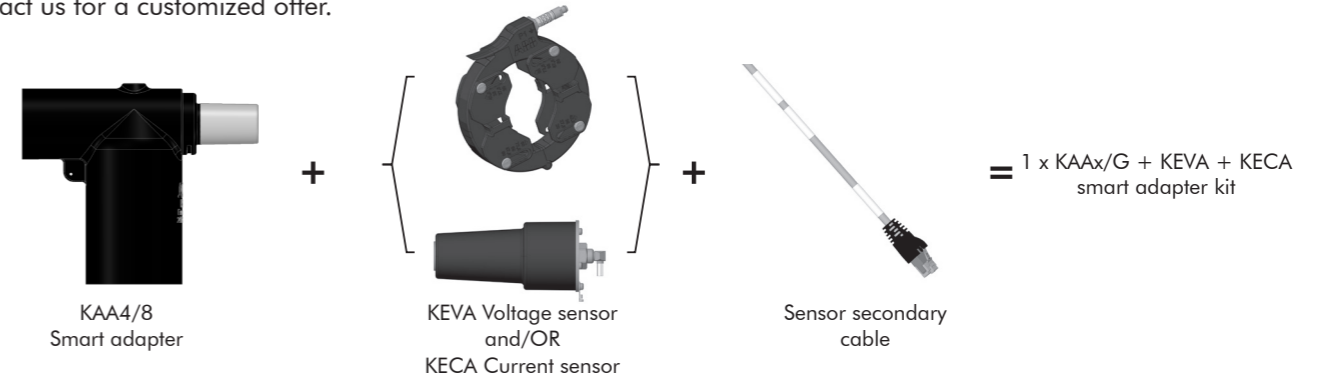
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Up to 24 kV - 250 A

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KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.



The kit also comprises lubricant, wipers and installation instructions.

ORDERING INSTRUCTIONS

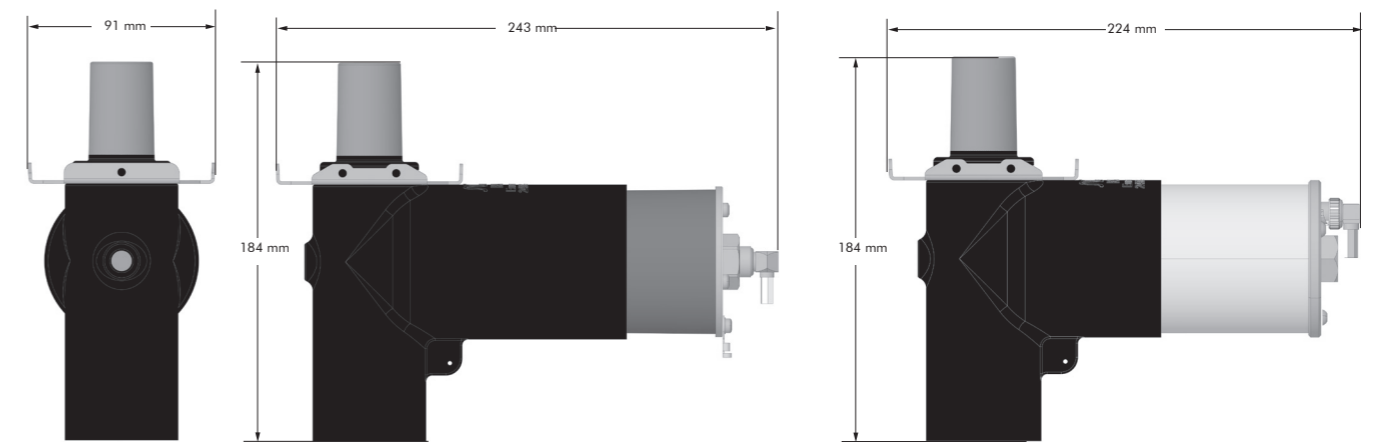
To order the right adapter or sensor for your application, refer to their specific catalog pages.

SENSOR ASSEMBLY

Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor
		Split core
Model	KEVA 24 Cxx	KECA 80 D85
Rated primary voltage/current	up to 22/√3 kV	80A
Rated frequency	50/60Hz	
Accuracy class	0,5/3P	0,5P/5P630
Rated burden	2M Ω/ 50pF or 200k Ω/ 350pF	2M Ω/ 50pF
Rated transformation ratio	1:10000 V/V or 3.25 V/√3 kV	80A/150mV @50Hz 80A/180mV @60Hz
Inner diameter	-	85 mm
Secondary cable length	5 m	
Plug type	RJ45 or open 2-pins	RJ45

LAYOUT

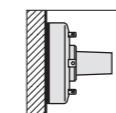


KAA4+KEVA 24 C10

KAA8+KEVA 24 C2 4.1C



Rated voltage 12/20 (24) kV



Interface A (250A)



For other cables length and custom applications. Please contact our representative.



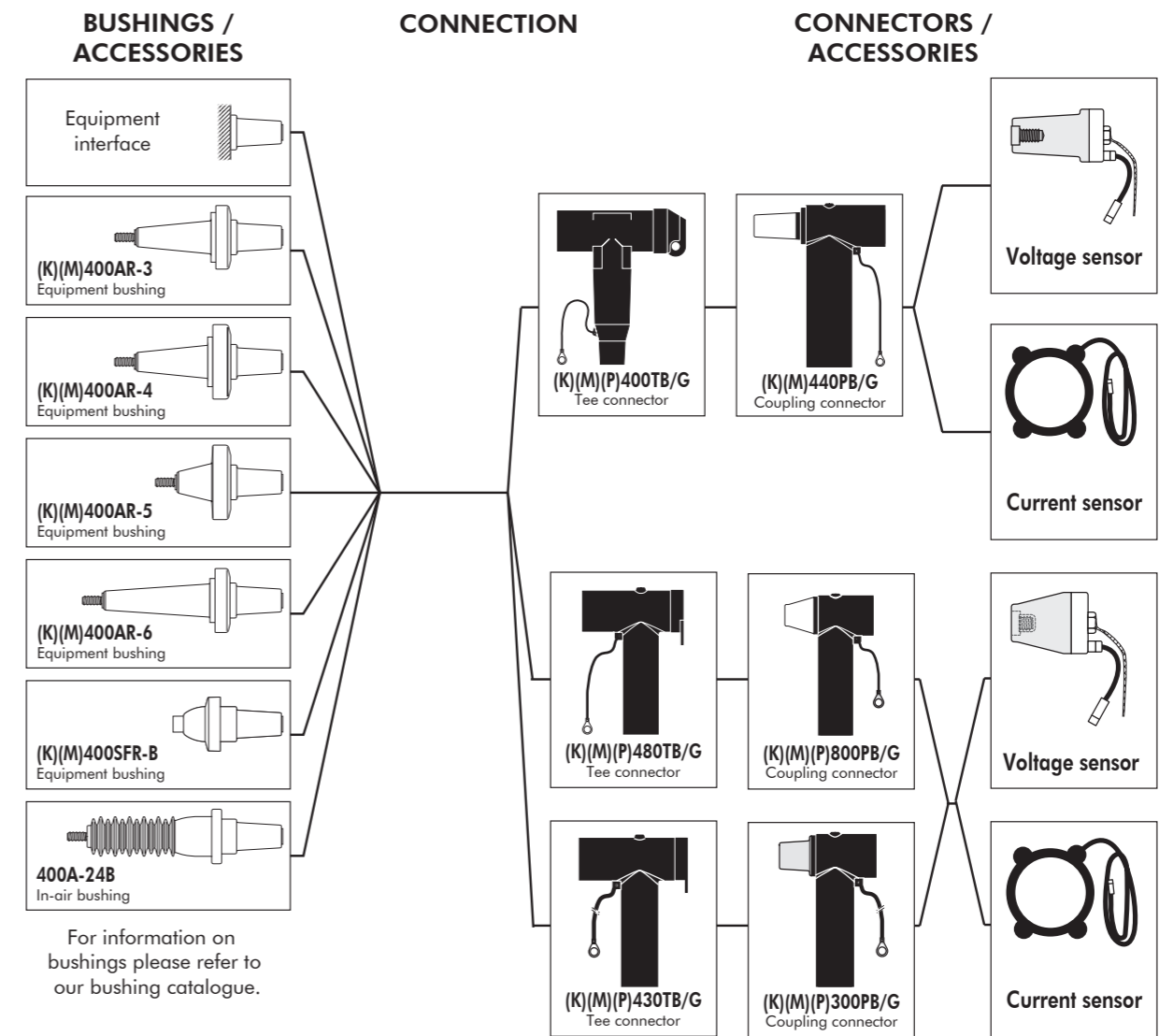
Components can be ordered individually.

Smart adapter model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max Application Current (A)	Type
KAA4	KEVA 24 C10	up to 24 kV	Resistive divider	KECA 80 D85	4000	Split core Rogowski
	KEVA 24 C10c		Resistive divider, conductive surface			
KAA8	KEVA 24 C2 4.1		Resistive divider			
	KEVA 24 C2 4.1c		Resistive divider, conductive surface			

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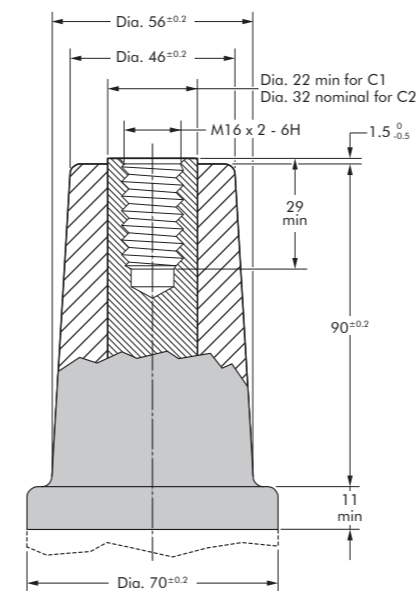
SMART CONNECTORS

CONNECTING POSSIBILITIES



INTERFACE C1 & C2

Dimensions according to European CENELEC EN 50180 and 50181 (in mm).



In mm.

400/440TB & 440PB WITH ABB KEVA/KECA

APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 61869-10 and IEC 61869-11 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

DESIGN

Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer.
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. ABB KECA current sensor.
7. Cable reducer.
8. ABB KEVA voltage sensor.
9. Earthing lead.

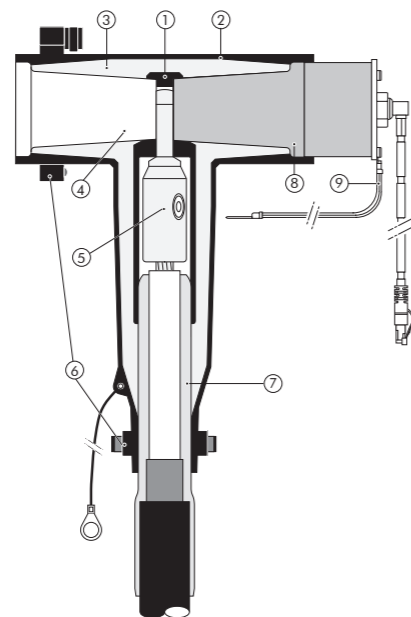
SPECIFICATIONS AND STANDARDS

The 400TB separable connector meets the requirements of CENELEC HD 629.1.

The KEVA and KECA sensors meet the requirements of IEC61869-10 and -11.

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



INTERFACE C SMART CONNECTOR



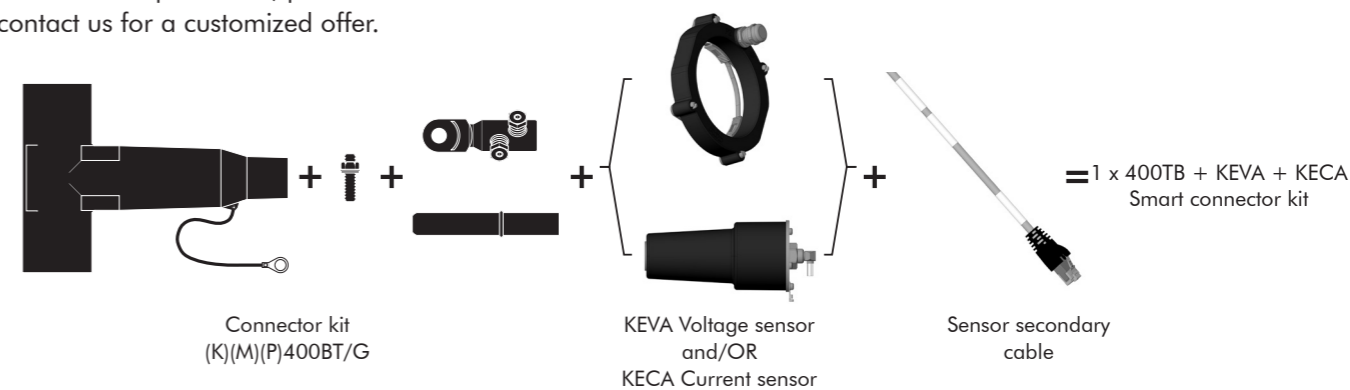
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Up to 24 kV - 630 A

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KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.



The kit also comprises lubricant, wipers, installation instructions and crimp chart.

ORDERING INSTRUCTIONS

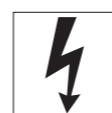
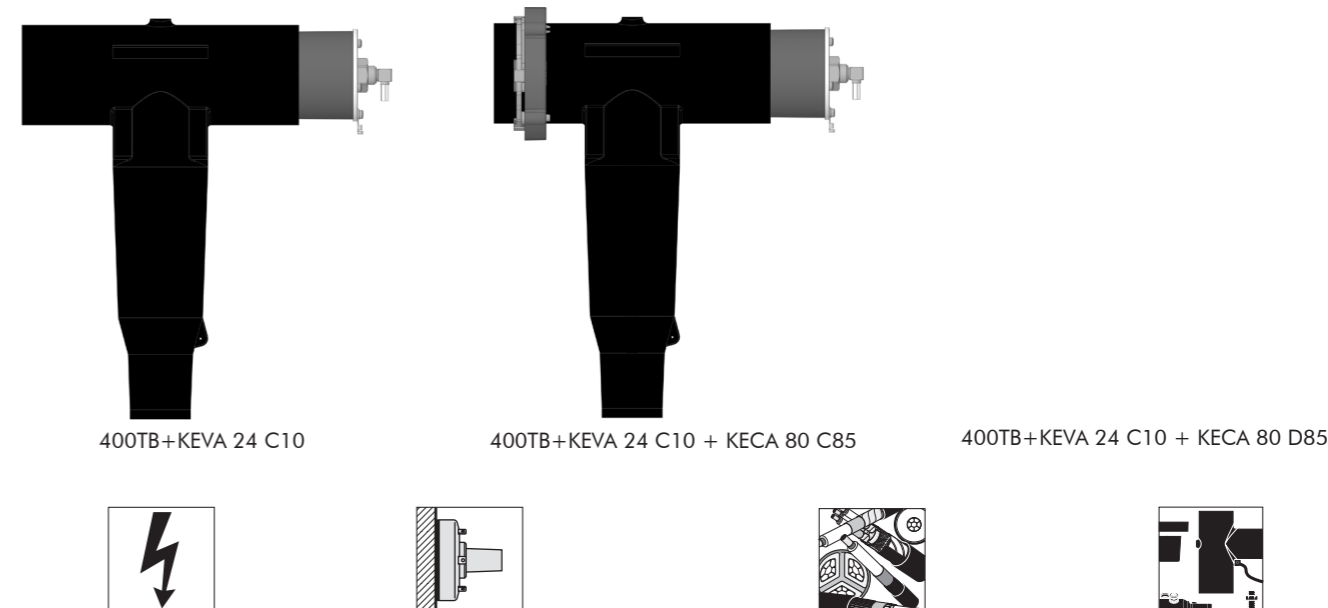
To order the right connector or sensor for your application, refer to the specific catalog pages.

SENSOR ASSEMBLY

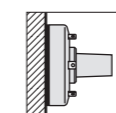
Current sensor KECA 80 C85 shall be installed on shielded head of cable connector using clamping system. Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Split core	Closed core
Model	KEVA 24 Cxx	KECA 80 D85	KECA 80 C85
Rated primary voltage/current	up to 22/√3 kV	80A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0,5P/5P630	
Rated burden	2M Ω/ 50pF or 200k Ω/ 350pF	2M Ω/ 50pF	
Rated transformation ratio	1:10000 V/V or 3.25 V/√3 kV	80A/150mV @50Hz	80A/180mV @60Hz
Inner diameter	-	85 mm	
Secondary cable length	5 m		
Plug type	RJ45 or open 2-pins	RJ45	

LAYOUT



Rated voltage 12/20 (24) kV



Interface C (630A)



For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.

Connector model	Voltage measurement			Current measurement		
	Model	Voltage U _m (kV)	Type	Model	Max application current (A)	Type
(K)400TB/G 400PB-10SA	KEVA 24 C10	Up to 24	Resistive divider	KECA 80 C85	4000	Closed core Rogowski
	KEVA 24 C10c		Resistive divider, conductive surface	KECA 80 D85		Split core Rogowski
(K)440TB/G (K)440PB/G	KEVA 24 C10	Up to 24	Resistive divider	KECA 80 D85	4000	Split core Rogowski
	KEVA 24 C10c		Resistive divider, conductive surface			

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480TB & 800PB WITH ABB KEVA/KECA

APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 61869-10 and IEC 61869-11 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

DESIGN

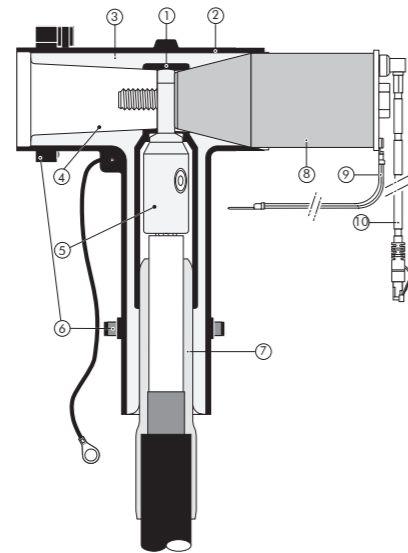
Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. ABB KECA current sensor.
7. Cable reducer.
8. ABB KEVA voltage sensor.
9. Earthing lead.
10. Sensor secondary cable.

SPECIFICATIONS AND

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



INTERFACE C SMART CONNECTOR



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
20.8/36 (42) kV

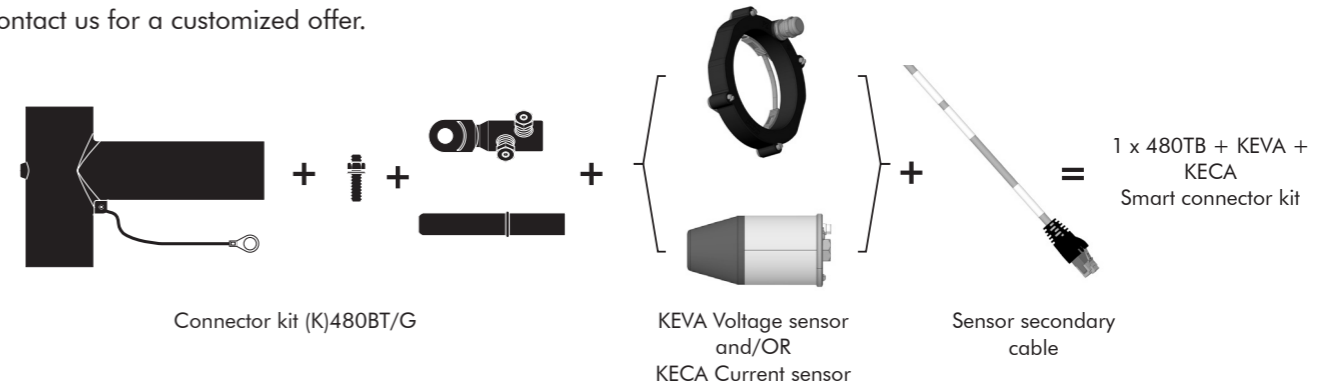
Up to 42 kV - 630 A

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Kit	Current measurement			
	Type	Model	Max application current (A)	Type
(K)(M)(P)804PB/G (K)(M)(P)809PB/G 800SA	Up to 36	KEVA 36 C2 4.1c	4000	Closed core Rogowski
		KEVA 40.5 C2 4.1		
	Up to 42	KEVA 40.5 C2 4.1c	4000	Split core Rogowski

KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.



The kit also comprises lubricant, wipers, installation instructions and crimp chart.

ORDERING INSTRUCTIONS

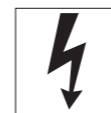
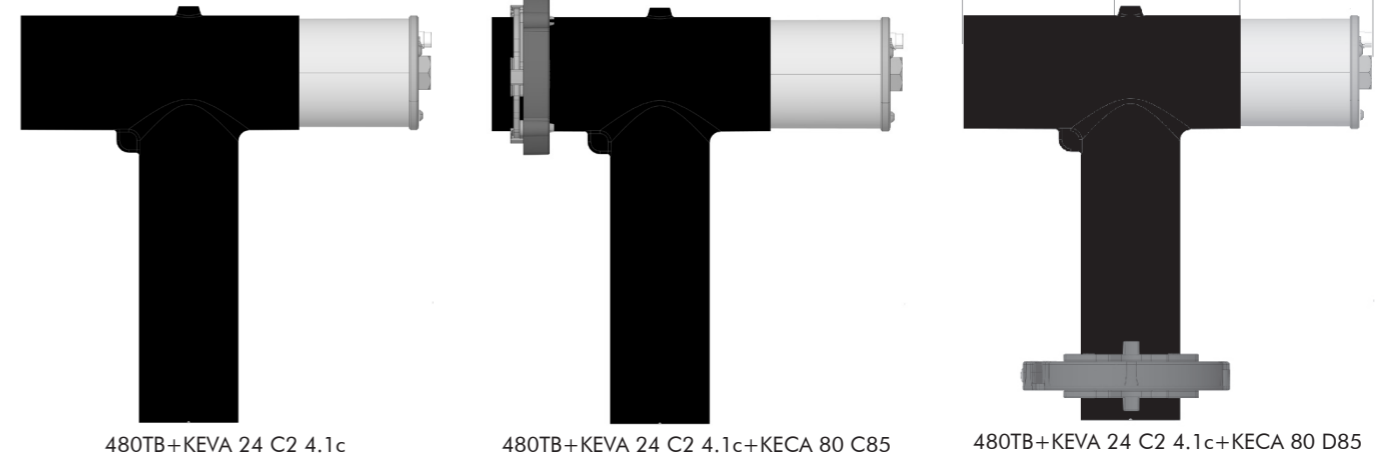
To order the right connector or sensor for your application, refer to the specific catalog pages.

SENSOR ASSEMBLY

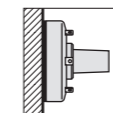
Current sensor KECA 80 C85 shall be installed on shielded head of cable connector using clamping system. Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled as would an insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Split core	Closed core
Model	KEVA 24/36/42 Cxx	KECA 80 D85	KECA 80 C85
Rated primary voltage/current	up to 40.5/√3 kV	80A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0,5P/5P630	
Rated burden	2M Ω / 50 pF		
Rated transformation ratio	1:10000 V/V	80A/150mV @50Hz 80A/180mV @60Hz	
Inner diameter	-	85 mm	
Secondary cable length	5 m		
Plug type	RJ 45		

LAYOUT



Rated voltage
12/20 (24) kV



InterfaceC
(630A)



For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.

430TB & 300PB WITH ABB KEVA/KECA

APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 61869-10 and IEC 61869-11 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

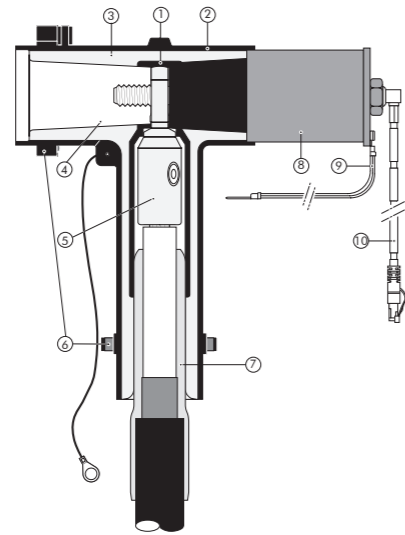
DESIGN

Separable connector comprising:

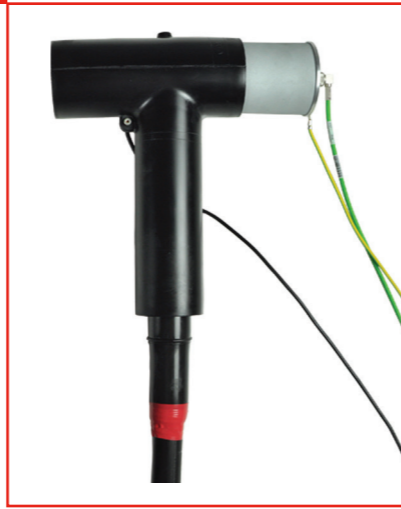
1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. ABB KECA current sensor.
7. Cable reducer.
8. ABB KEVA voltage sensor.
9. Earthing lead.
10. Sensor secondary cable.

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



INTERFACE C SMART CONNECTOR



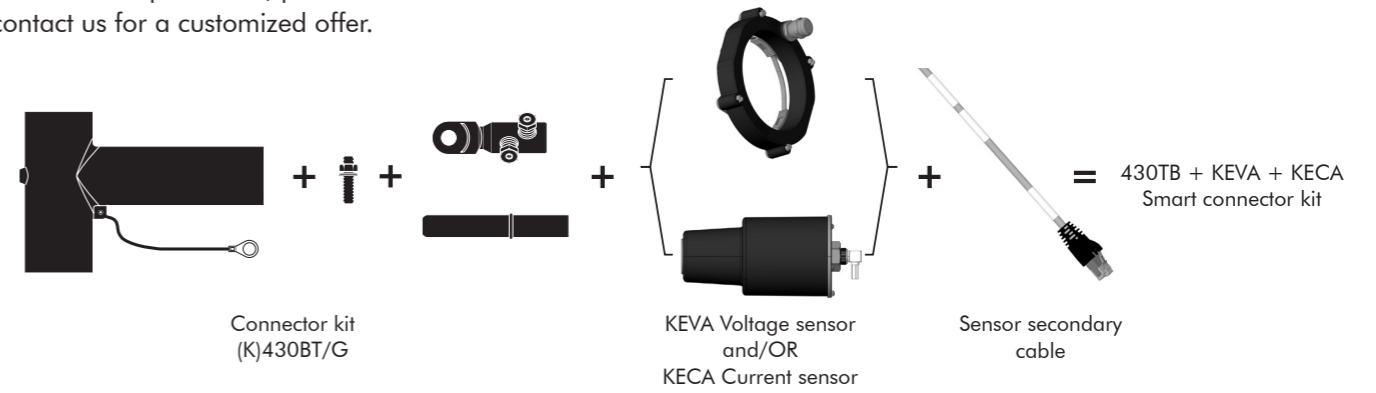
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV

Up to 24 kV - 630 A

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KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.



The kit also comprises lubricant, wipers, installation instructions and crimp chart.

ORDERING INSTRUCTIONS

To order the right connector or sensor for your application, refer to the specific catalog pages.

SENSOR ASSEMBLY

Current sensor KECA 80 C85 shall be installed on shielded head of cable connector using clamping system. Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled as would an insulating plugs in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Split core	Closed core
Model	KEVA 24 Cxx	KECA 80 D85	KECA 80 C85
Rated primary voltage/current	up to 22/√3 kV	80A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0,5P/5P630	
Rated burden	2M Ω/ 50pF or 200k Ω/ 350pF	2M Ω/ 50pF	
Rated transformation ratio	1:10000 V/V or 3.25 V/√3 kV	80A/150mV @50Hz	80A/180mV @60Hz
Inner diameter	-	85 mm	
Secondary cable length	5 m		
Plug type	RJ45 or open 2-pins	RJ45	

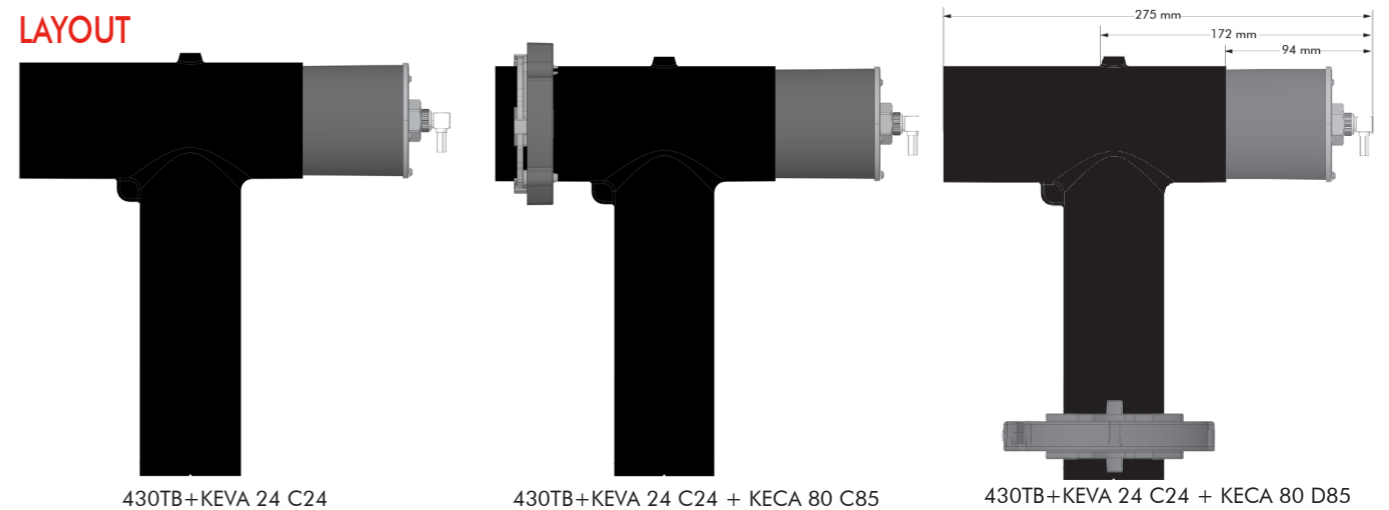
SPECIFICATIONS AND STANDARDS

The 430TB separable connector meets the requirements of CENELEC HD 629.1.

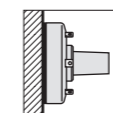
The KEVA and KECA sensors meet the requirements of IEC61869-10 and -11.

Connector model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max application current (A)	Type
(K)430TB/G	KEVA 24 C24	Up to 24	Resistive divider	KECA 80 C85	4000	Closed core Rogowski
(K)300PB/G 300SA	KEVA 24 C24c		Resistive divider conductive surface	KECA 80 D85	4000	Split core Rogowski

LAYOUT



Rated voltage
12/20 (24) kV



Interface C
(630A)



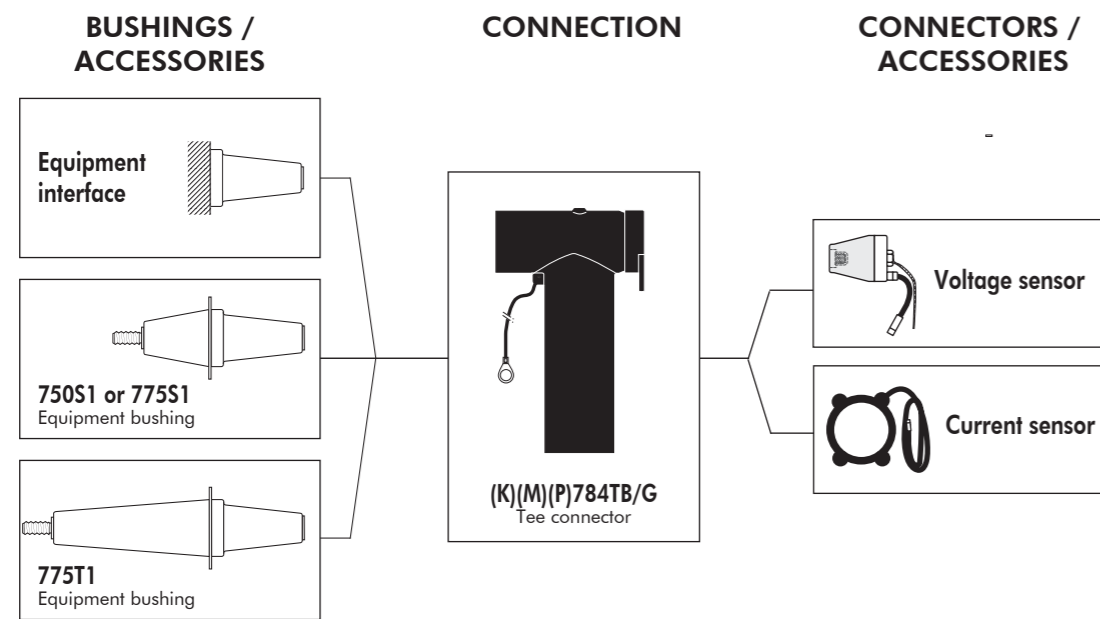
For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.

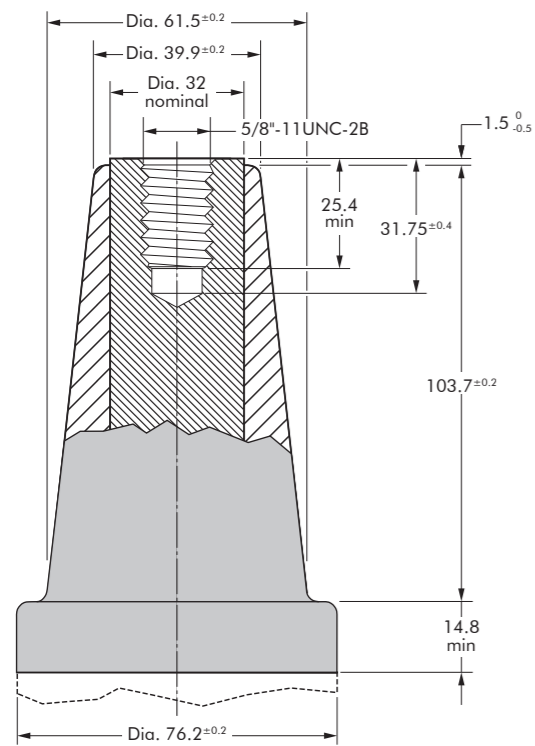
SMART CONNECTORS

CONNECTING POSSIBILITIES



INTERFACE E - 5/8"

Dimensions according to IEEE std. 386 (in mm, except where noted).



784TB & 800PB WITH ABB KEVA/KECA

APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 61869-10 and IEC 61869-11 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

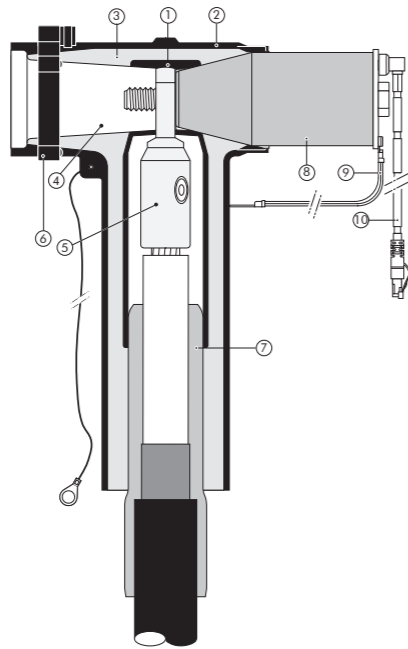
DESIGN

Separable connector comprising:

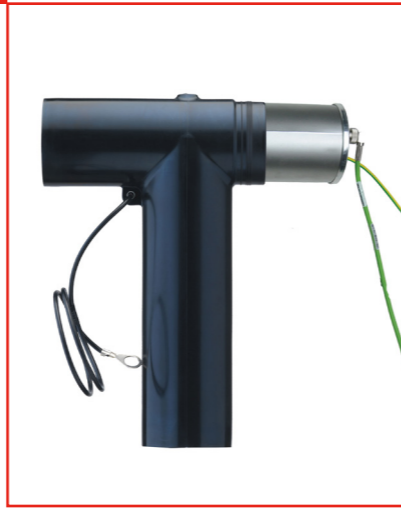
1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer
4. Type E 5/8" interface as described by IEEE 386.
5. Conductor contact.
6. ABB KECA current sensor.
7. Cable reducer.
8. ABB KEVA voltage sensor.
9. Earthing lead.
10. Sensor secondary cable.

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



INTERFACE E SMART CONNECTOR



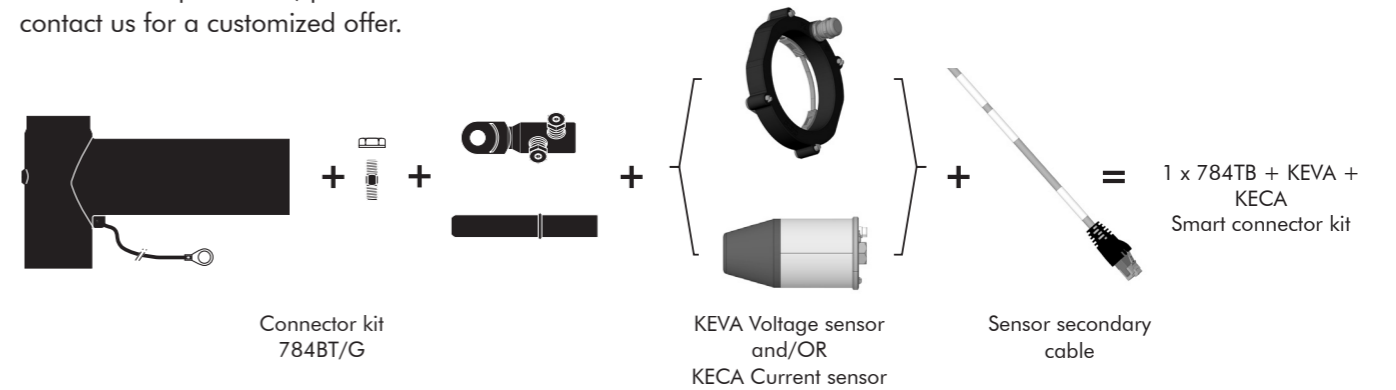
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV
12/20 (24) kV
12.7/22 (24) kV
18/30 (36) kV
19/33 (36) kV
20.8/36 (42) kV

Up to 42kV - 1250 A

EUROMOLD®

KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.



The kit also comprises lubricant, wipers, installation instructions and crimp chart.

ORDERING INSTRUCTIONS

To order the right connector or sensor for your application, refer to the specific catalog pages.

SENSOR ASSEMBLY

Current sensor KECA 80 C85 shall be installed on shielded head of cable connector using clamping system. Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled as would an insulating plugs in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Split core	Closed core
Model	KEVA 24/36/42 Cxx	KECA 80 D85	KECA 80 C85
Rated primary voltage/current	up to 40.5/√3 kV	80A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0,5P/5P630	
Rated burden	2M Ω/ 50pF		
Rated transformation ratio	1:10000 V/V	80A/150mV @50Hz 80A/180mV @60Hz	
Inner diameter	-	85 mm	
Secondary cable length	5 m		
Plug type	RJ45		

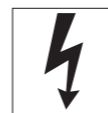
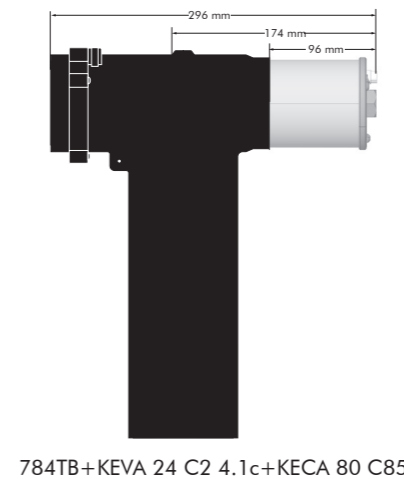
SPECIFICATIONS AND STANDARDS

The 784TB separable connector meets the requirements of CENELEC HD 629.1.

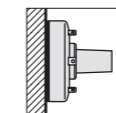
The KEVA and KECA sensors meet the requirements of IEC61869-10 and -11.

Connector model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max application current (A)	Type
(K)(M)(P)784TB/G (K)(M)(P)800B/G 800SA	KEVA 24 C2 4.1	Up to 24	Resistive divider with conductive surface	KECA 80 C85	4000	Closed core Rogowski
	KEVA 24 C2 4.1c					
	KEVA 36 C2 4.1	Up to 36	Resistive divider with conductive surface	KECA 80 D85	4000	Split core Rogowski
	KEVA 36 C2 4.1c					
	KEVA 40.5 C2 4.1	Up to 42	Resistive divider with conductive surface	KECA 80 D85	4000	Split core Rogowski
	KEVA 40.5 C2 4.1c					

LAYOUT



Rated voltage 21/36 (42) kV



Interface E (1250A)



For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.

About Nexans

For over a century, Nexans has played a crucial role in the electrification of the planet and is committed to electrifying the future. With approximately 28,500 people in 41 countries, the Group is paving the way to a new world of safe, sustainable and decarbonized electricity that is accessible to everyone. In 2023, Nexans generated 6.5 billion euros in standard sales. The Group is a leader in the design and manufacturing of cable systems and services across four main business areas: Power Generation & Transmission, Distribution, Usage and Industry & Solutions.

Nexans was the first company in its industry to create a Foundation supporting sustainable initiatives, bringing access to energy to disadvantaged communities worldwide. The Group is recognized on the CDP Climate Change A List as a global leader on climate action and has committed to Net-Zero emissions by 2050 aligned with the Science Based Targets initiative (SBTi).

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Nexans Network Solutions NV - div. EUROMOLD

Nexans Network Solutions NV - div. EUROMOLD

Zuid III - Industrielaan 12

B-9320 EREMBODEGEM-AALST — BELGIUM

Tel: +32 (0)53/85 02 11

E-mail: sales.euromold@nexans.com

www.nexans.be/poweraccessories



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