

Premolded screened separable cable connector CSE-A 12–42 kV, 630 A

Application areas

Premolded screened separable connector for XLPE- and EPR-insulated 1- or 3-core cables with Al- or Cu-conductors for 12–42 kV. Can be installed both indoors and outdoors.

3

Fits standard bushings of outer cone type according to EN 50181. Connector with rated current:

- 630 A: Interface C1 with bolt M16.
- 1250 A: Interface C2 with bolt M16.

Standard

Meets the requirements of:

- CENELEC, HD 629.1 S2

Design

CSE-A is manufactured in rubber with three layers; a conductive inner layer, an insulation layer and a conductive outer layer, that are vulcanized together for the best possible interface between the layers.

The cable connector includes both a capacitive test point with protection and an integrated earthing wire.

- Delivered in 3-phase kits, complete with cable lugs, bolt connection and stress grading adapter, designed to ensure a reliable installation.

Note:

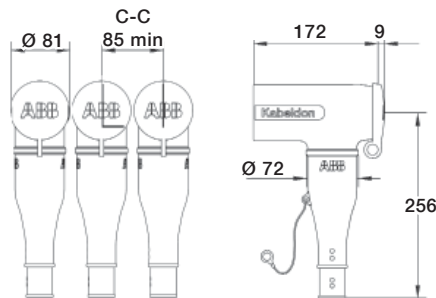
- For 3-core cables with common Cu-screen wires, a screen separation kit or a branch seal kit must be used. To be ordered separately.

Always select products by cable insulation diameter.

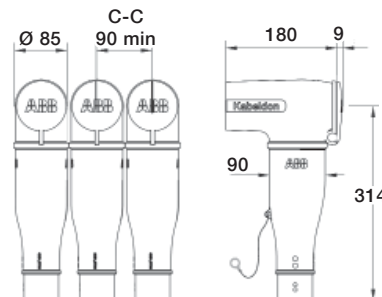
Voltage	Insulation diameter	Conductor cross section	Designation	Weight
kV	mm	mm ²		kg/unit
12	13–20	25–70	CSE-A 12630-01	5.1
12	18.5–30.5	95–300	CSE-A 12630-02	5.5
12	30.5–45	400–630	CSE-A 12630-03	7.7
24	17–24	25–70	CSE-A 24630-01	5.1
24	22.5–35	95–300	CSE-A 24630-02	5.5
24	30.5–45	400–630	CSE-A 24630-03	7.7
36	24.5–34	50–95	CSE-A 36630-01	6.1
36	27.5–42	95–300	CSE-A 36630-02	6.6
36	38.0–55	400–630	CSE-A 36630-03	8.7
42	24.5–34	50–70	CSE-A 42630-01	6.1
42	27.5–42	95–300	CSE-A 42630-02	6.6
42	38–55	400–630	CSE-A 42630-03	8.7



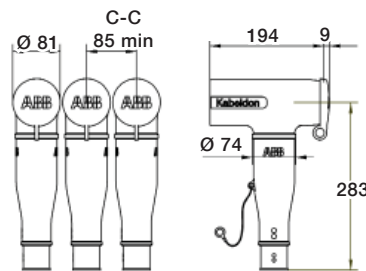
CSE-A 12630, CSE-A 24630 CSE-A 36630, CSE-A 42630



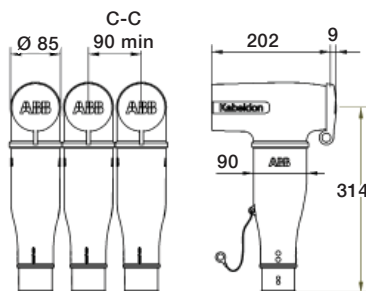
CSE-A 630 A, 12–24 kV, sizes 1–2



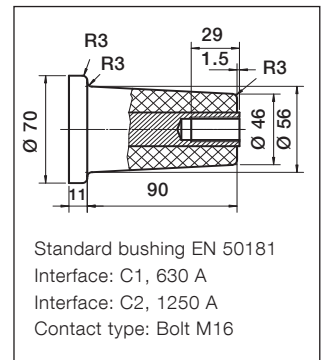
CSE-A 630 A, 12–24 kV, size 3



CSE-A 630 A, 36–42 kV sizes 1–2.



CSE-A 630 A, 36–42 kV size 3.



Premolded screened separable cable connector for cables with copper tape screen CSE-A 12–36 kV, 630 A

Application areas

Premolded screened separable connector for XLPE- and EPR-insulated 1- or 3-core 12–36 kV cables, with Al- or Cu-conductors with Cu-tape screens, with or without aluminium or steel wire armouring. Can be installed both indoors and outdoors.

Fits standard bushings of outer cone type according to EN 50181. Connectors with rated current:

- 630 A: interface type C1 with bolt M16.
- 1250 A: interface type C2 with bolt M16.

Standard

Meets the requirements of:

- CENELEC, HD 629.1 S2

Design

CSE-A is manufactured in rubber with three layers; a conductive inner layer, an insulation layer and a conductive outer layer, that are vulcanized together for the best possible interface between the layers. The cable connector includes both a capacitive test point with protection and an integrated earthing wire.

- Delivered in 3-phase kits, complete with cable lugs, bolt connection, earthing kit and stress grading adapters. The adapters are designed to ensure a reliable installation. For 3-core cables, a branch seal kit is included.

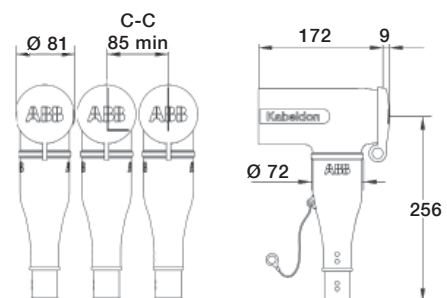
Always select products by cable insulation diameter.

Voltage	Insulation diameter	Conductor cross section	Outer sheath diameter	Designation	Weight
kV	mm	mm ²	mm		kg/unit
Elbow cable connectors, 3 x 1-core cables					
12	13–20	25–70	–	CSE-A 12630-01 R	5.6
12	19–29	95–300	–	CSE-A 12630-02 S	6.0
12	30.5–37	400	–	CSE-A 12630-03 T	8.2
24	19–24	35–70	–	CSE-A 24630-01 S	5.6
24	25–35	95–300	–	CSE-A 24630-02 T	6.0
24	30.5–37	400	–	CSE-A 24630-03 T	8.2
36	19–29	50–70	–	CSE-A 36630-01 S	6.8
36	27.5–37	95–300	–	CSE-A 36630-02 T	7.3
36	38–50	400	–	CSE-A 36630-03 U	9.4
Elbow cable connectors, 3-core cables					
12	13–20	25–70	31–50	CSE-A 12630-01 RA	5.8
12	19–29	95–185	47–70	CSE-A 12630-02 SB	6.2
12	25–30.5	240–300	58–94	CSE-A 12630-02 TB	6.2
12	30.5–37	400	58–94	CSE-A 12630-03 TB	8.4
24	19–24	35–70	47–70	CSE-A 24630-01 SB	5.8
24	25–35	95–300	58–94	CSE-A 24630-02 TB	6.2
24	30.5–37	400	65–110	CSE-A 24630-03 TB	8.4
36	19–29	50–95	58–94	CSE-A 36630-01 SB	6.8
36	27.5–37	95–300	65–110	CSE-A 36630-02 TB	7.3

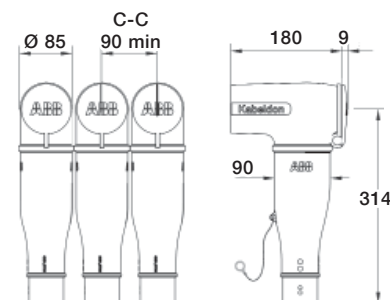


CSE-A 12630 / CSE-A 24630

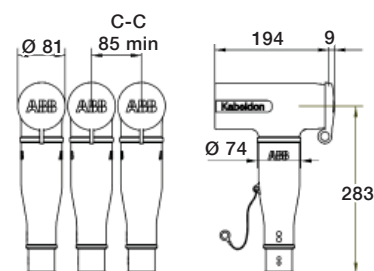
CSE-A 36630



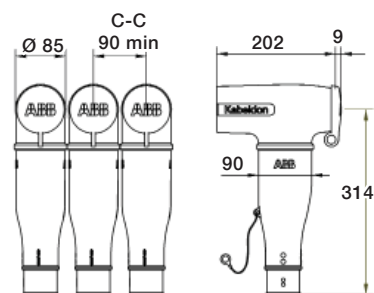
CSE-A 630 A, 12–24 kV, sizes 1–2



CSE-A 630 A, 12–24 kV, size 3



CSE-A 630 A, 36–42 kV sizes 1–2.



CSE-A 630 A, 36–42 kV size 3.

Accessories, to be ordered separately

Screened separable cable connector

CSE-A 12–42 kV, 630 A

3



IH-A 24630, IH 42630
Insulating hood, of flexible rubber with outer conductive layer and a preinstalled insulating rod. To be mounted on the bushing in a switchgear or a transformer 630 A to insulate it when a cable is temporarily disconnected but other cables are energized.



IP 630
Screened insulating plug for installation in the connector so that the cable can be energized even when disconnected from the switchgear or transformer 630 A.



PC 630/250
Parallel coupling piece. Replaces the plug in CSE-A 630 A when making a parallel connection to CSE-A 250 A. Delivered in 3-phase kits and hex bit socket.



PSSK
Screen separation kit to achieve a metallic screen on each core for 3-core cable.



TSH
Branch seal kit to achieve a sealing on each core for 3-core cable.



JPB 630
Universal earthing device with two fields of application for 630 A and 12-42 kV:
– As earthing-for-work device mounted at the back of a connected cable connector CSE-A for 630 A.
– As short-circuit protective earthing mounted in front of a disconnected cable connector CSE-A for 630 A.



CSAP-A
Surge arrester, 630 A.



PG 630
Bushing for voltage testing.



PG-A 630
Bushing for voltage testing, 36–42 kV.



MA-A 630
Measurement adapter used for mega ohm Ω measurements and to perform different measurements up to 5 kV DC, for example determination of phases, 630 A.



CSEP-A
Parallel cable connector.



PC 630-3 L
Parallel coupling piece, 36–42 kV. Delivered in 3-phase kits with hex bit socket.



PC 630-3
Parallel coupling piece. Delivered in 3-phase kits with hex bit socket.



JPA V
Tool for earthing device, JPB 630.

Designation	Description	Qty. per kit	Weight	See page
			kg/kit	
IH-A 24630	Insulating hood, 12–24 kV, 630 A	3	5.2	3/21
IH-A 42630	Insulating hood, 36–42 kV, 630 A	3	5.5	3/21
IP 630	Screened insulating plug, 630 A	1	2.2	3/21
PC 630/250	Parallel coupling piece	3	3.0	3/21
PSSK	Screen separation kit, heat-shrink for 3-core cable	1	1.0–1.1	3/45
TSH	Branch seal	1	0.3–1.0	3/46
JPB 630	Earthing device, 630 A	1	5.0	3/21
JPA V	Tool for earthing-for-work device, JPB 630	1	1.8	3/21
CSAP-A	Surge arrester, 630 A, 12–24 kV	1	3.6–5.0	3/25
PG 630	Bushing for voltage testing, 630 A, 12–24 kV	1	1.5	3/21
PG-A 630	Bushing for voltage testing, 630 A, 36–42 kV	1	2.0	3/21
MA-A 630	Measurement adapter, 630 A	3	0.2	3/21
CSEP-A	Parallel cable connector	1	5.7–9.8	3/22
PC 630-3	Parallel coupling piece, 630 A	3	3.3	3/21
PC 630-3 L	Parallel coupling piece, 36–42 kV	3	3.6	3/21

Parallel separable connector for 630 A cable connector CSEP-A 12–42 kV

Application area

CSEP-A is a screened separable parallel cable connector designed to be connected to a screened separable cable connector type CSE-A 630. Used with XLPE- och EPR-insulated 1- or 3-core cables with Al- or Cu-conductor for 12–42 kV.

Standard

- Fulfills the requirements of CENELEC HD 629.1 S2.

Design

CSEP-A is manufactured in rubber with three layers; a conductive inner layer, an insulation layer and a conductive outer layer that are vulcanized together for the best possible interface between the layers.

When installing CSEP-A on the CSE-A the plug and the protective cap must be moved from CSE-A to parallel connector CSEP-A. In that way the capacitive test point is re-established.

- Delivered in 3-phase kits complete with cable lugs, bolt connections, stress grading adapters and also an integrated earthing wire.

Note:

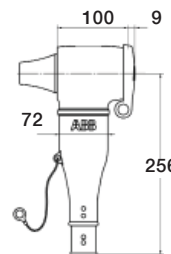
- For 3-core cables with common Cu-screen wires, a screen separation kit or a branch seal kit must be used. For screen separation kit see table at page 3/45.

Always select products by cable insulation diameter.

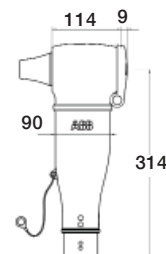
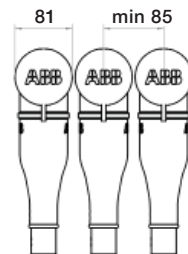
Voltage	Conductor cross section	Insulation diameter	Designation	Weight
kV	mm ²	mm		kg/kit
12	25–70	13–20	CSEP-A 12630-01	5.7
12	95–300	18.5–30.5	CSEP-A 12630-02	6.1
12	400–630	30.5–45	CSEP-A 12630-03	8.6
24	25–70	17–24	CSEP-A 24630-01	5.7
24	95–300	22.5–35	CSEP-A 24630-02	6.1
24	400–630	30.5–45	CSEP-A 24630-03	8.6
36	50–95	24.5–34	CSEP-A 36630-01	6.7
36	95–300	27.5–42	CSEP-A 36630-02	7.1
36	400–630	38–55	CSEP-A 36630-03	9.8
42	50–70	24.5–34	CSEP-A 42630-01	6.7
42	95–300	27.5–42	CSEP-A 42630-02	7.1
42	400–630	38–55	CSEP-A 42630-03	9.8



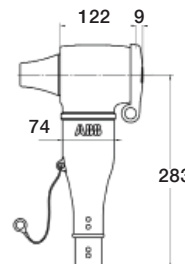
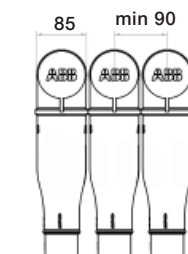
CSEP-A



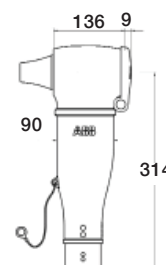
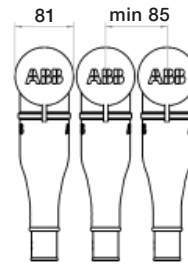
CSEP-A, 12–24 kV sizes 1–2



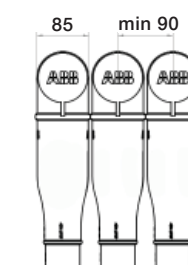
CSEP-A, 12–24 kV size 3



CSEP-A, 36–42 kV sizes 1–2



CSEP-A, 36–42 kV size 3



Parallel screened separable connector for cable with copper tape screen, 630 A CSEP-A 12–36 kV

Application area

CSEP-A is a screened separable parallel connector designed to be connected to a screened separable connector type CSE-A 630. Used with XLPE- and EPR-insulated 1- or 3-core 12–36 kV cables, with Al- or Cu-conductors with copper tape screens, with or without aluminium or steel wire armouring.

3

Standard

- Fulfills the requirements of CENELEC HD 629.1 S2.

Design

CSEP-A is manufactured in rubber with three layers; a conductive inner layer, an insulation layer and a conductive outer layer that are vulcanized together for the best possible interface between the layers.

When installing CSEP-A on the CSE-A, the plug and the protective cap must be moved from CSE-A to the parallel connector CSEP-A. In that way the capacitive test point is re-established.

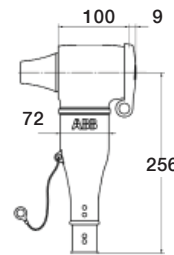
- Delivered in 3-phase kits complete with cable lugs, bolt connections, stress grading adapters and also an integrated earthing wire.

Note:

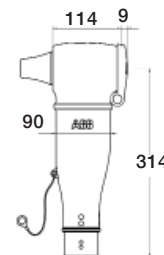
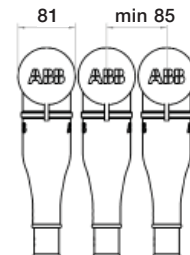
- For 3-core cables with common Cu-tape screen, a screen separation kit or a branch seal kit must be used. See table at page 3/45.



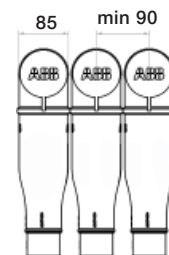
CSEP-A



CSEP-A, 12–24 kV sizes 1–2

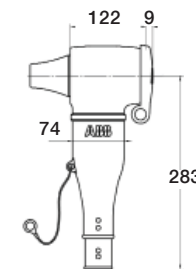


CSEP-A, 12–24 kV size 3

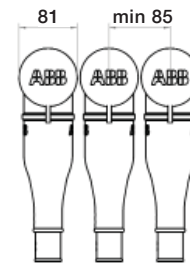


Always select products by cable insulation diameter.

Voltage	Insulation diameter	Conductor cross section	Designation	Weight
kV	mm	mm ²		kg/kit
Parallel connector for 3 x 1-core cables				
12	13–20	25–70	CSEP-A 12630-01 R	5.8
12	18.5–30.5	95–300	CSEP-A 12630-02 S	6.2
12	30.5–45	400	CSEP-A 12630-03 T	8.7
24	17–24	35–70	CSEP-A 24630-01 S	5.8
24	22.5–35	95–300	CSEP-A 24630-02 T	6.2
24	30.5–45	400	CSEP-A 24630-03 T	8.7
36	24.5–34	50–70	CSEP-A 36630-01 S	6.8
36	27.5–42	95–300	CSEP-A 36630-02 T	7.2
36	38–55	400	CSEP-A 36630-03 U	9.9

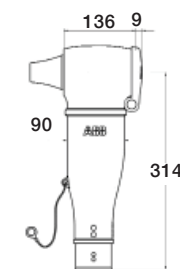


CSEP-A, 36–42 kV sizes 1–2

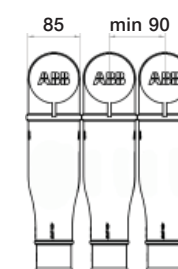


Parallel connector for 3-core cables

12	13–20	25–70	CSEP-A 12630-01 RA	5.8
12	18.5–30.5	95–185	CSEP-A 12630-02 SB	6.2
12	18.5–30.5	240–300	CSEP-A 12630-02 TB	6.2
12	30.5–45	400	CSEP-A 12630-03 TB	8.7
24	17–24	35–70	CSEP-A 24630-01 SB	5.8
24	22.5–35	95–300	CSEP-A 24630-02 TB	6.2
24	30.5–45	400	CSEP-A 24630-03 TB	8.7
36	24.5–34	50–95	CSEP-A 36630-01 SB	6.8
36	27.5–42	95–300	CSEP-A 36630-02 TB	7.2



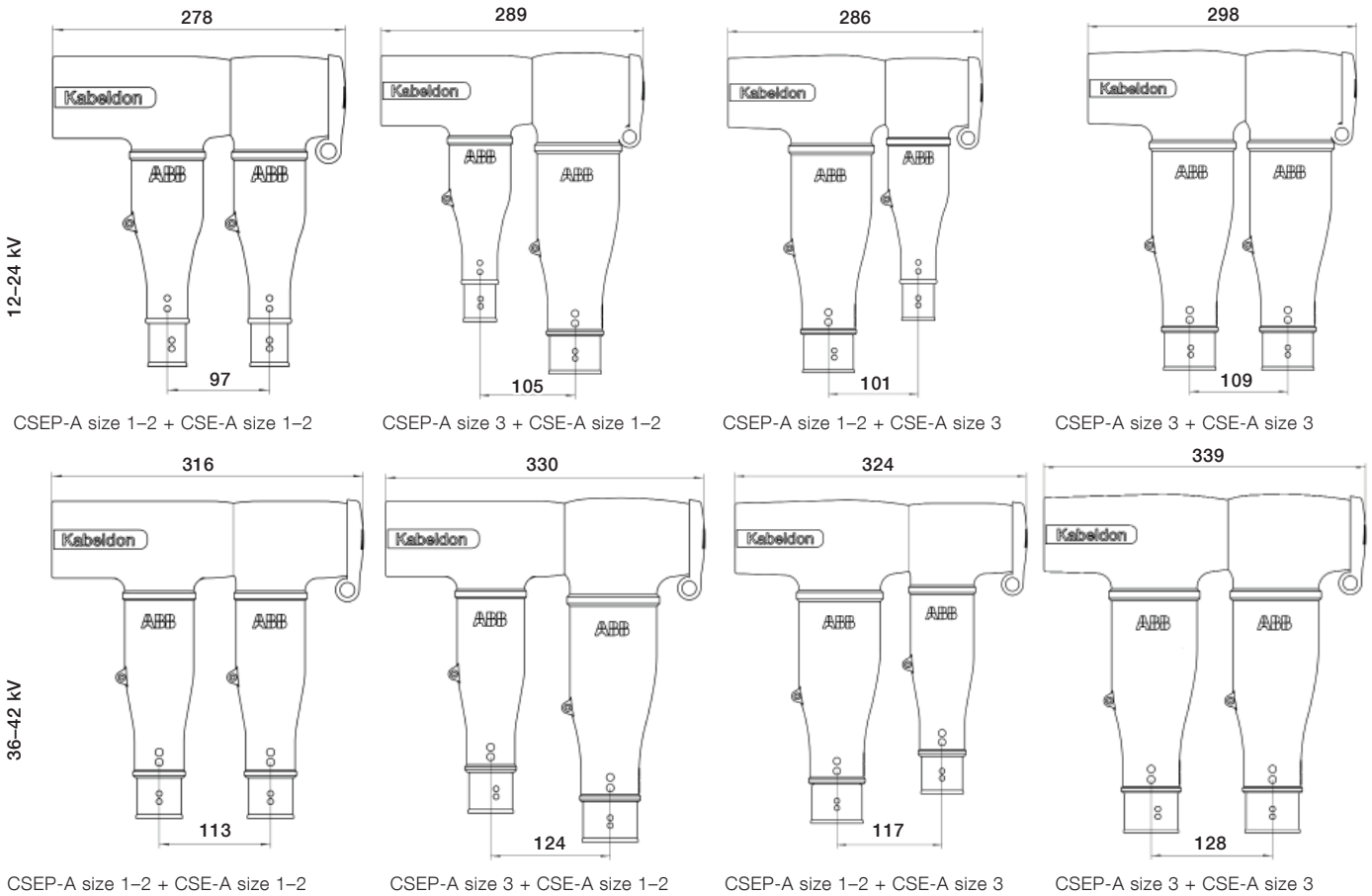
CSEP-A, 36–42 kV size 3



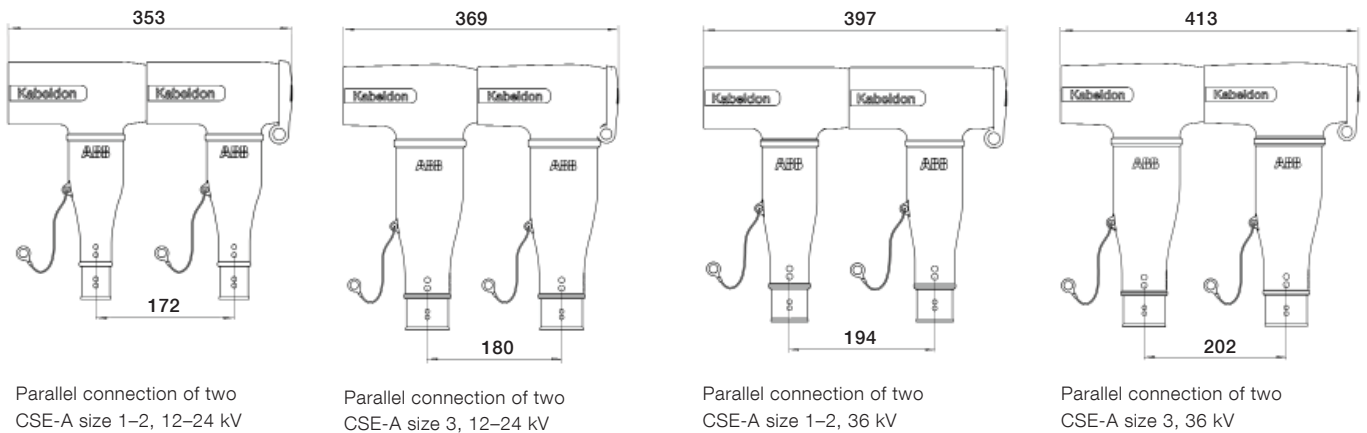
Dimensional drawings

- Parallel connection of CSE-A and CSEP-A 12-42 kV
- Parallel connection of two CSE-A 12-42 kV

Connection of parallel connector type CSEP-A to cable connector type CSE-A meets the requirements according to the standard CENELEC HD 629.1 S2.



Parallel connection of two cable connectors type CSE-A with parallel coupling piece PC 630-3 / PC 630-3 L meets the requirements according to the standard CENELEC HD 629.1 S2.



Accessories, to be ordered separately:

Designation	Description	See page
TSH, SSH	Branch seal and additional hoses	3/46
PSSK	Screen separation kit	3/45



Surge arresters for 630 A separable connector CSAP-A 12–24 kV

Application area

CSAP-A is a screened separable surge arrester designed to be connected in parallel with screened separable cable connector type CSE-A 630 A.

- Protects electrical components against overvoltage and transients.

3

Standard

- Fulfills the requirements of IEC 60099-4.
- Parallel connection of surge arrester CSAP-A connected to cable connector CSE-A meets the requirements according to standard CENELEC HD 629.1 S2.

Design

CSAP-A includes a premolded body, manufactured in three layers; a conductive inner layer, an insulation layer and a conductive outer layer vulcanized together for the best possible interface between the layers.

The surge arrester's active part is made of metal oxide. The connected earth braid manages short circuit currents according to the standard.

When installing CSAP-A on the CSE-A 630, the plug and the protective cap must be moved from CSE-A to the surge arrester CSAP-A. In that way the capacitive test point is re-established.

Delivered in 1-core kits complete with bolt connection, earth braid and also an integrated earthing wire.

Voltage kV	Designation	Weight kg/kit
12	CSAP-A 12 5 kA	3.6
12	CSAP-A 12 10 kA	4.0
24	CSAP-A 24 5 kA	4.6
24	CSAP-A 24 10 kA	5.0

Explanation of symbols according to IEC 60099-4

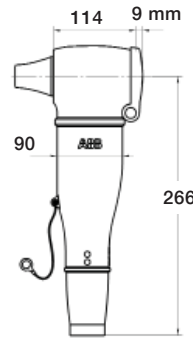
U _c	continuous operating voltage rms
U _r	rated voltage rms
U _{res}	residual voltage peak at 8/20 μs
I _n	nominal discharge current 8/20 μs
I _{hc}	high current impulse 4/10 μs
I _s	short circuit rating 50 Hz rms for 0.2 s

Technical data

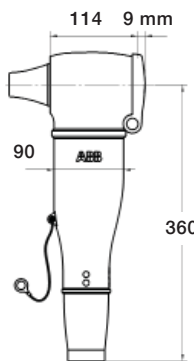
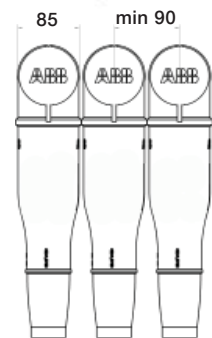
Designation	U _c	U _r	U _{res}	I _n	I _{hc}	I _s	IEC line discharge class
	[kV]	[kV]	[kV]	[kA]	[kA]	[kA]	
CSAP-A 12 5 kA	12	15	39.1	5	65	16	–
CSAP-A 12 10 kA	12	15	40	10	100	16	1
CSAP-A 24 5 kA	24	30	78.2	5	65	16	–
CSAP-A 24 10 kA	24	30	80	10	100	16	1



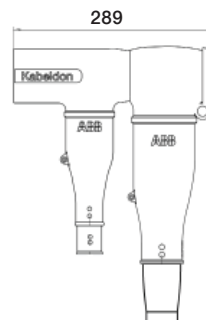
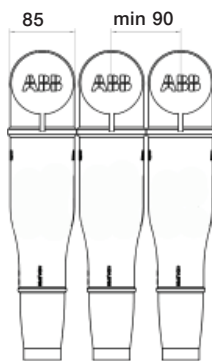
CSAP-A



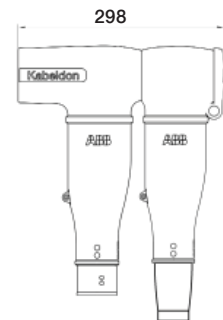
CSAP-A sizes 12/5 and 12/10



CSAP-A sizes 24/5 and 24/10



CSE-A sizes 1–2 + CSAP-A



CSE-A size 3 + CSAP-A