CHESK-I
1-core indoor cable termination
with screw cable lugs, for all 1-core polymeric cables

Hybrid cable terminations CHESK-I are suitable for all 1-core polymeric-insulated cables (PVC, PE, XLPE, EPR) with different types of semi-conductive layers (graphite-coated, removable or strippable) and screen design (copper wire or tape). With screw cable lugs for main conductor and copper wire screen.

Characteristics
- Flexible silicone stress control elements ensure reliable stress control under all operating conditions
- Combination of slip-on and heat shrinkable components
- Wide cross-section range
- Quick, safe and easy assembly
- Ready for immediate operation

Application/Suitability
- Indoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

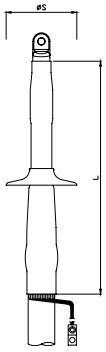
Note
- 12 kV cable terminations must be used for 7.2 kV cables. (Check minimum diameter over conductor insulation.)

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Scope of delivery
1 set for 3 phases, heat shrinkable tube (tracking resistant), silicone stress control elements, silicone sheds, sealing tape, screw cable lugs, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Dimensions


Ø S = Diameter of cable shed

Type		L mm	min. Ø over core insulation after removal of the outer conductive layer mm	Number of sheds per phase	Ø S mm	12 kV	17.5 kV	24 kV	36 kV	Art.-No.
						Nominal cross section mm²				
U_0/U (U_m) 6/10 (12) kV - 6.35/11 (12) kV										
CHESK-I 12kV	25-95	300	12.6			25 - 95				290443
	70-150	300	17.3			70 - 150				309514
	95-240	300	17.3			95 - 240				290444
	240-400	300	19.9			240 - 400				309516
	400-630	310	27.3			400 - 630				369496
	630-1000	310	36.8			630 - 1000				369497
U_0/U (U_m) 8.7/15 (17.5) kV										
CHESK-I 17kV	35-95	300	17.3	1	85		35 - 95			309517
	50-150	300	17.3	1	85		50 - 150			309519
	95-240	300	19.9	1	85		95 - 240			309520
	240-400	300	23.1	1	85		240 - 400			309521
	400-630	310	27.3	1	115		400 - 630			369505
	630-1000	310	36.8	1	123		630 - 1000			369506
U_0/U (U_m) 12/20 (24) kV - 12.7/22 (24) kV										
CHESK-I 24kV	25-95	300	17.3	1	85			25 - 95		309522
	50-150	300	17.3	1	85			50 - 150		309523
	95-240	300	19.9	1	85			95 - 240		309525
	240-400	300	27.3	1	115			240 - 400		309526
	400-630	310	27.3	1	115			400 - 630		364848
	630-1000	310	36.8	1	123			630 - 1000		369498
U_0/U (U_m) 18/30 (36) kV - 19/33 (36) kV										
CHESK-I 36kV	16-95	500	19.9	2	85				16 - 95	309527
	50-150	500	23.1	2	85				50 - 150	309528
	95-240	500	23.1	2	85				95 - 240	309529
	240-400	500	27.3	2	115				240 - 400	309530
	400-630	500	36.8	2	115				400 - 630	369499
	630-1000	500	36.8	2	123				630 - 1000	369500

CHESK-F
1-core outdoor cable termination
with screw cable lugs, for all 1-core polymeric cables

Hybrid cable terminations CHESK-F are suitable for all 1-core polymeric-insulated cables (PVC, PE, XLPE, EPR) with different types of semi-conductive layers (graphite-coated, removable or strippable) and screen design (copper wire or tape). With screw cable lugs for main conductor and copper wire screen.

Characteristics
- Flexible silicone stress control elements ensure reliable stress control under all operating conditions
- Combination of slip-on and heat shrinkable components
- Wide cross-section range
- Quick, safe and easy assembly
- Ready for immediate operation

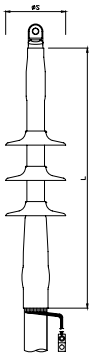
Application/Suitability
- Outdoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Note
- 12 kV cable terminations must be used for 7.2 kV cables. (Check minimum diameter over conductor insulation.)

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions


Ø S = Diameter of cable shed

Scope of delivery
1 set for 3 phases, heat shrinkable tube (tracking resistant), silicone stress control elements, silicone sheds, sealing tape, screw cable lugs, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Type		L mm	min. Ø over core insulation after removal of the outer conductive layer mm	Number of sheds per phase	Ø S mm	12 kV	17.5 kV	24 kV	36 kV	Art.-No.
						Nominal cross section mm²				
U_0/U (U_m) 6/10 (12) kV - 6.35/11 (12) kV										
CHESK-F 12kV	25-95	300	12.6	1	80	25 - 95				309534
	70-150	300	17.3	1	85	70 - 150				309535
	95-240	300	17.3	1	85	95 - 240				309536
	240-400	300	19.9	1	85	240 - 400				309537
	400-630	310	27,3	1	115	400 - 630				369503
	630-1000	310	36,8	1	123	630 - 1000				369504
U_0/U (U_m) 8.7/15 (17.5) kV										
CHESK-F 17kV	35-95	500	17.3	2	85		35 - 95			309539
	50-150	500	17.3	2	85		50 - 150			309540
	95-240	500	19.9	2	85		95 - 240			309541
	240-400	500	23.1	2	85		240 - 400			309542
	400-630	500	27,3	2	115		400 - 630			369508
	630-1000	500	36,8	2	123		630 - 1000			369509
U_0/U (U_m) 12/20 (24) kV - 12.7/22 (24) kV										
CHESK-F 24kV	25-95	500	17.3	3	85			25 - 95		309545
	50-150	500	17.3	3	85			50 - 150		309546
	95-240	500	19.9	3	85			95 - 240		309548
	240-400	500	27.3	3	115			240 - 400		309550
	400-630	500	27,3	3	115			400 - 630		364847
	630-1000	500	36,8	3	123			630 - 1000		369507
U_0/U (U_m) 18/30 (36) kV - 19/33 (36) kV										
CHESK-F 36kV	16-95	700	19.9	4	85				16 - 95	309551
	50-150	700	23.1	4	85				50 - 150	309552
	95-240	700	23.1	4	85				95 - 240	309553
	240-400	700	27.3	4	115				240 - 400	309554
	400-630	700	36,8	4	115				400 - 630	369520
	630-1000	700	36,8	4	123				630 - 1000	369521

CWS 250A
Elbow separable connector

for all 1-core polymeric cables, for outer cone system terminals type A

Cellplux elbow separable connectors CWS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen), to switching equipment and transformers having an outer cone system type A, up to maximum network voltage of 24 kV in accordance with EN 50180 and EN 50181.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

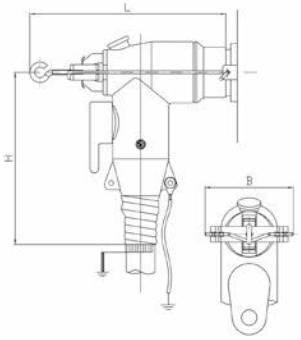
Application/Suitability
- Indoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: Elbow separable connections for alternative cross-sections and for class 5 conductors on request

Type		L mm	B mm	H mm	min. Ø over core insulation after removal of the outer conductive layer mm	12 kV Nominal cross section mm²	17.5 kV Nominal cross section mm²	24 kV Nominal cross section mm²	Art.-No.
U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV									
CWS 250A 24kV	16-95 M EGA	200	80	178	14.7	50 - 95	25 - 95	16 - 95	295167
	70-150 M EGA	200	80	178	19.9	120 - 150	95 - 150	70 - 150	293792

CGS 250A
Straight separable connector

for all 1-core polymeric cables, for outer cone system terminals type A

Cellplux straight separable connectors CGS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen) for switching equipment and transformers having an outer cone system type A, up to maximum network voltage of 24 kV in accordance with EN 50180 and EN 50181.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

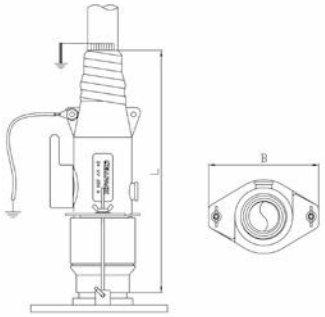
Application/Suitability
- Indoor

Voltage level
- $U_0/U\ (U_m)$ 6/10 (12) kV - 12.7/22 (24) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: Straight separable connections for alternative cross-sections and for class 5 conductors on request

					12 kV	17.5 kV	24 kV	
Type		**L mm**	**B mm**	**min. Ø over core insulation after removal of the outer conductive layer mm**	**Nominal cross section mm²**			**Art.-No.**
$U_0/U\ (U_m)$ 6/10 (12) kV - 12.7/22 (24) kV								
CGS 250A 24kV	25-95 M EGA	248	110	14.7	50 - 95	25 - 95	25 - 95	295283
	70-150 M EGA	248	110	19.9	120 - 150	95 - 150	70 - 150	293797

CWS 400A
Elbow separable connector

for all 1-core polymeric cables, for outer cone system terminals type B

Cellplux elbow separable connectors CWS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen), to switching equipment and transformers having an outer cone system type B, up to maximum network voltage of 36 kV in accordance with EN 50180 and EN 50181.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

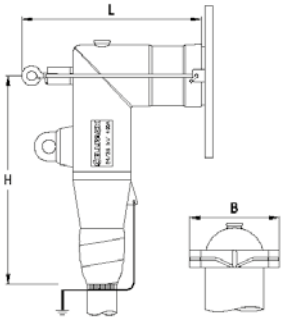
Application/Suitability
- Indoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: Elbow separable connections for alternative cross-sections and for class 5 conductors on request

						12 kV	17.5 kV	24 kV	36 kV	
Type		**L mm**	**B mm**	**H mm**	**min. Ø over core insulation after removal of the outer conductive layer mm**	**Nominal cross section mm²**				**Art.-No.**
U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV										
CWS 400A 24kV	25-70 EGA	215	107	250	14.7	50 - 95	25 - 95	25 - 70		250720
	95-240 EGA	215	107	250	22.0	150 - 240	120 - 240	95 - 240		246176
U_0/U (U_m) 12/20 (24) kV - 19/33 (36) kV										
CWS 400A 36kV	35-95 EGA	215	107	250	22,0			95 - 95	35 - 95	250726
	95-150 EGA	215	107	250	22,0			95-240	95-150	359558
	150-240 EGA	215	107	250	30,8			240 - 240	150 - 240	247102

CTS 630A
T-shaped separable connector

for all 1-core polymeric cables, for outer cone system terminals type C

Cellplux screwable T-shaped separable connectors CTS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen) to switching equipment and transformers having an outer cone system type C, up to maximum network voltage of 36 kV in accordance with EN 50180 and EN 50181.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

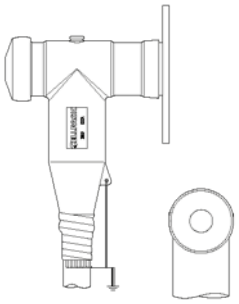
Application/Suitability
- Indoor
- Outdoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: Other T-shaped separable connectors (cross-sections, class 5) available on request

						12 kV	17.5 kV	24 kV	36 kV	
Type		**L mm**	**B mm**	**H mm**	**min. Ø over core insulation after removal of the outer conductive layer mm**	**Nominal cross section mm²**				**Art.-No.**
U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV										
CTS 630A 24kV	25-70	194	85	250	14.7	50 - 95	25 - 95	25 - 70		355434
	95-240	194	85	250	22.0	150 - 240	120 - 240	95 - 240		355433
	240-400	194	85	250	23,7	240 - 400	240 - 400	240 - 400		355561
U_0/U (U_m) 12/20 (24) kV - 19/33 (36) kV										
CTS 630A 36kV	35-95	194	85	250	22.0			95 - 95	35 - 95	355562
	95-150	194	85	250	22.0			95 - 240	95 - 150	355563
	150-240	194	85	250	30.8			240 - 240	150 - 240	355564
	240-400	194	85	265	31.5			300 - 400	240 - 400	356660

CTS 1250A
T-shaped separable connector

for all 1-core polymeric cables, for outer cone system terminals type C

Cellplux screwable T-shaped separable connectors CTS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen) to switching equipment and transformers having an outer cone system type C, up to maximum network voltage of 36 kV in accordance with EN 50180 and EN 50181.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

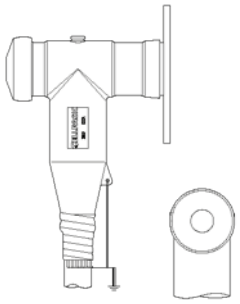
Application/Suitability
- Indoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, screw cable lug for wire screen, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: Other T-shaped separable connectors (cross-sections, class 5) available on request

					12 kV	17.5 kV	24 kV	36 kV	
Type	**L mm**	**B mm**	**H mm**	**min. Ø over core insulation after removal of the outer conductive layer mm**	**Nominal cross section mm²**				**Art.-No.**
U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV									
CTS 1250A 24kV 400-630 EGA M12 KS	205	87	310	33.4	500 - 630	400 - 630	400 - 630		309283
U_0/U (U_m) 12/20 (24) kV - 19/33 (36) kV									
CTS 1250A 36kV 400-630 EGA M12 KS	205	87	310	39.1			630	400 - 630	309284

CTKS 630A
T-shaped separable coupling connector

for all 1-core polymeric cables, for separable connector type CTS

Cellplux T-shaped separable coupling connectors CTKS are suitable for connecting all polymeric-insulated 1-core cables (PVC, PE, XLPE, EPR), with different types of semi-conductive layers (graphite-coated or strippable) and screen design (wire or tape screen) to the back of T-shaped separable connectors type CTS.

Characteristics
- With capacitive measuring point
- Individually tested
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Cable sheath insulation fault test may be performed while under voltage
- For copper and aluminium conductors
- Quick, safe and easy assembly
- Suitable for a wide range of applications due to integrated screw cable lug

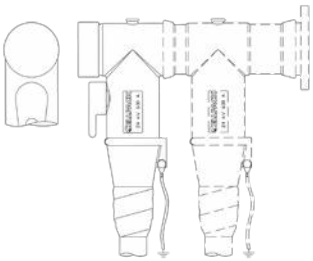
Application/Suitability
- Indoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Test standards
- CENELEC HD 629.1 (DIN VDE 0278, part 629-1)

Storage conditions/Shelf life
- Unlimited shelf life

Dimensions



Scope of delivery
Set of 3 separable coupling connectors, silicone stress control elements, earthing set, screw cable lug for main conductor, assembly material, assembly instructions

Optional accessory: EGA earthing kit for cables with tape screen (see Connecting technology)

Note: T-shaped separable coupling connector for alternative cross-sections and for class 5 conductors on request

						12 kV	17.5 kV	24 kV	36 kV	
Type		L mm	B mm	H mm	min. Ø over core insulation after removal of the outer conductive layer mm	Nominal cross section mm²				Art.-No.
U_0/U (U_m) 6/10 (12) kV - 12.7/22 (24) kV										
CTKS 630A 24kV	25-70 EGA	290	74	250	14.7	50 - 95	25 - 95	25 - 70		256838
	95-240 EGA	290	74	250	22.0	150 - 240	120 - 240	95 - 240		256839
U_0/U (U_m) 12/20 (24) kV - 19/33 (36) kV										
CTKS 630A 36kV	35-95	310	85	250	22.0			95 - 95	35 - 95	257581
	150-240	310	85	250	30.8			240 - 240	150 - 240	257582
	240-400	310	85	250	31,5			300 - 400	240 - 400	353314

CTKSA
Coupling surge arrester
Class DH, for separable connector type CTS

The Cellplux surge arrester CTKSA Class DH are designed to protect encapsulated medium voltage systems. The CTKSA coupling surge arresters are specifically designed for mounting on shielded, screw-type Cellpack cable connections and comply with the international standards IEC 60099-4 and IEC 60071.

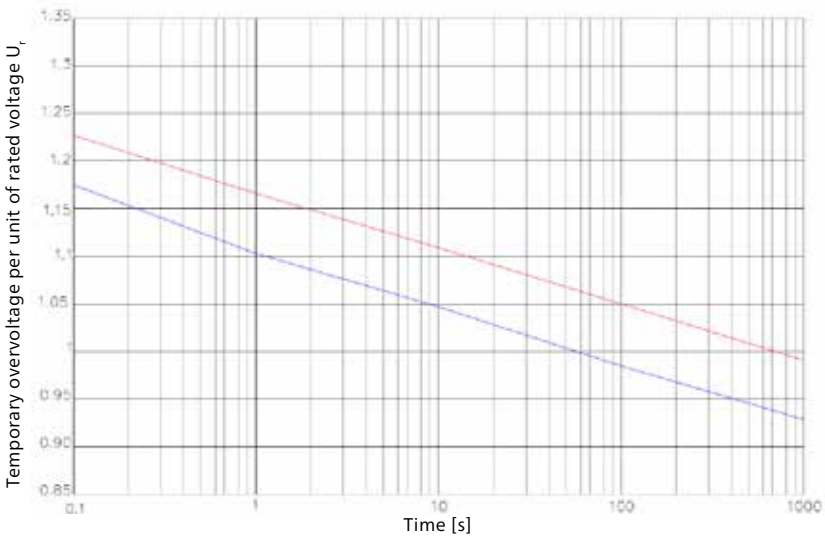
Characteristics
- With capacitive measuring point
- Individually tested
- Safe-to-touch as the EPDM body is protected by outer semiconductive screen and it is connected to earth
- Quick, safe and easy assembly

Application/Suitability
- Indoor
- Outdoor

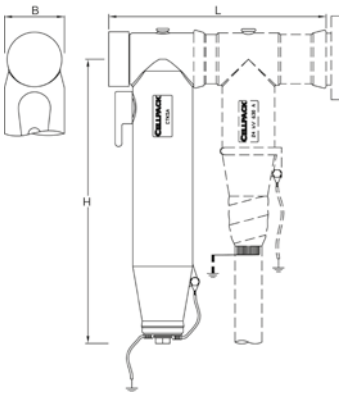
Storage conditions/Shelf life
- Unlimited shelf life

Scope of delivery
Set of 3 surge arresters, assembly material, assembly instructions

Power frequency versus time characteristic (TOV)
(initial temperature: 60°C)



Dimensions



Type		L mm	B mm	H mm	Art.-No.
CTKSA	8 kV	290	80	380	423851
	12 kV	290	80	380	423852
	18 kV	290	80	380	423853
	19,5 kV	290	80	380	423854
	22 kV	290	80	380	423855
	24 kV	290	80	380	423856
	34 kV	290	80	380	423857

Technical Data							
Rated discharge current, In [kA]	10						
High current impulse 4/10 µs [kA]	100						
Rated short-circuit current [kA]	20						
Repetitive charge transfer rating, Q_{rs} [C]	0,5						
Thermal charge transfer rating, Q_{th} [C]	1,1						
Technical Data / Type	**8 kV**	**12 kV**	**18 kV**	**19,5 kV**	**22 kV**	**24 kV**	**34 kV**
Rated voltage, U_r [kV]	10,0	15,0	22,5	24,0	27,0	30,0	42,0
Maximum continuous operating voltage, U_c [kV]	8,0	12,7	18,3	19,5	22,0	24,4	34,0
Residual voltage (IEC 60099-4) [kV] with:							
Steep current impulse (1/T, T < 20 µs)	28,3	42,5	63,8	68,0	76,5	85,0	119,0
Lightning impulse 8/20 µs:							
5 kA	24,8	37,2	55,7	59,6	67,0	74,4	104,0
10 kA	26,9	40,3	60,5	64,4	72,5	80,5	112,8
20 kA	29,3	44,0	66,0	70,4	79,2	88,0	123,2

ZS
Accessory kit

for separable connectors

The ZS-CTS accessory set is designed for the reinstallation of T-shaped separable connectors CTS to switching equipment and transformers having an outer cone system type C, in accordance with EN 50180 and EN 50181. The ZS-CPS / CPES / CPAS Accessory set is suitable for installation of End-Plugs, Test Kits and Voltage Sensors in Type C separable connectors.

Characteristics
- Easy assembly

Application/Suitability
- Re-installation of type CTS separable connectors
- Re-installation of End-Plugs / Installation of CPS, CPES, CPAS.

Scope of delivery
ZS-CTS: Set of 3 contact pins with shear head bolt, 6 Cleaning tissues, 3 Lubricants (GM1), 1 slide-on applicator AH3, Assembly instruction
ZS-CPS/CPES/CPAS: 9 Cleaning tissues, 6 Lubricants (GM1), 3 pairs protective gloves and 1 slide-on applicator AH2

Type		Art.-No.
ZS	CTS 630A	257622
	CTS 1250A	374292
	CPS/CPES/CPAS	365078

CIK
Voltage-resistant insulating cap
for bushings type A 250A and type C 630A

The voltage-resistant insulating caps CIK are suitable for electrical insulation of bushings (outer cones) type A 250A and type C 630A on transformers and gas-insulated switchgears up to 36 kV, in accordance with EN 50180 and EN 50181.

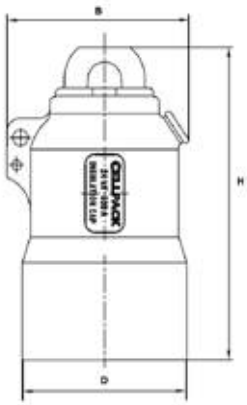
Characteristics
- Submersible
- Outer semi-conductive layer made of semi-conductive EPDM provides protection from exposed electrical parts
- Easy assembly

Application/Suitability
- Indoor
- Outdoor

Voltage level
- U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV

Storage conditions/Shelf life
- Unlimited shelf life

Scope of delivery
Set of 3 voltage resistant insulating caps, assembly material, assembly instructions



Type	B	D	H	Art.-No.
	mm			
U_0/U (U_m) 6/10 (12) kV - 12,7/22 (24) kV				
CIK 250A 24kV	82	68	116	265023
CIK 630A 24kV	93	82	160	372710
U_0/U (U_m) 6/10 (12) kV - 19/33 (36) kV				
CIK 630A 36kV	93	82	160	265024