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Technical Data Sheet CD20 Plug 123-170kV Dry plug-in cable termination for CD20 Socket

CD20 Plug Termination kit



Suitable for cable installations in a gas-insulated switchgear or an oil-filled transformer box.

Design

The cable termination consists of:

- Plug-in connector including contact springs and a locking device.
- The field control component is a premolded stress relief cone.
- Pre-loaded spring assembly.
- Box body and cable clamps.
- Screen connection clamp.

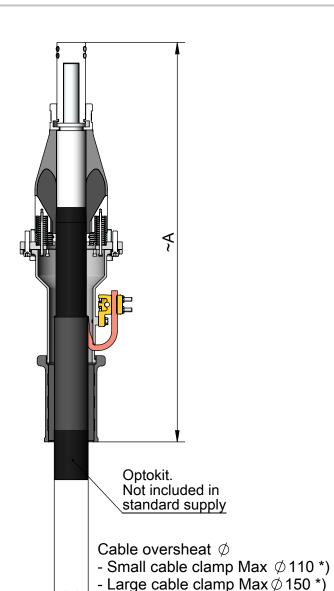
Installation

Fits CD20 Socket.

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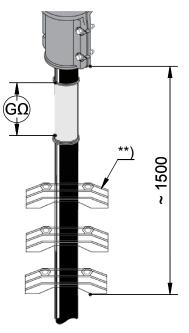
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*) If earthing kit, JSA or SCK is used, the maximum oversheath diameter (range) must be reduced with 20mm

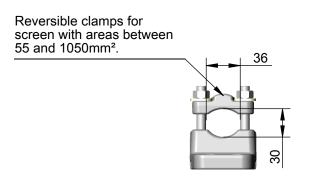
Туре	kV	Dimension
		~A
CD20 Plug	123-170	1050

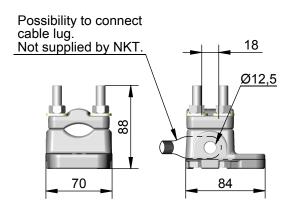
All measurements in mm



The cable must be secured after installation.
 Recommendation is 3 clamps within 1.5m from the termination.
 E.g. the UKR system.
 NB! If cable has conductive layer it shall be removed and resistance checked acc. installation instructions.
 First clamp must always be positioned below removed area **).

Screen connection clamp





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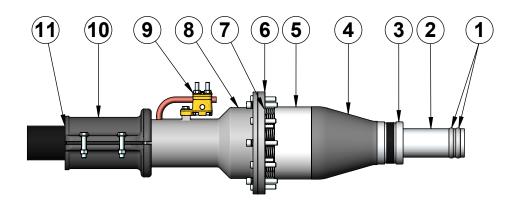
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	Exposed screws, nuts and washers are of stainless steel.						
	11	Fitting winding		Bitumized paper			
	10	Cable clamp			Aluminium		
	9	Screen connection	clamp		Brass, tin coate	ed	
	8	Box body			Aluminium		
	7 Spring				Stainless steel		
	6 Spring ring				Aluminium		
	5	Pressure ring			Aluminium		
	4	Stress relief cone			EPDM rubber		
	3	Locking device			Aluminium		
	2	Plug-in connector			Copper or alumin		
	1	Contact spring			Copperchromium- zirconium, CuCr1Zr		
	Item No.	Name of Item		Material			
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Cutaway drawing

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Technical Data of CD20 Plug 123-170kV

Dry plug-in cable termination for CD20 Socket

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We	Manufacturer	N	KT					
	Country	Sv	weden					
	Type designation	CI	D20 Plug					
	Application	In	door and	outdoor				
	Applica ble standard	IE	C 60840					
	Electrical data							
	Plug type	CI	CD20 Plug					
	Highest voltage for equipment U_m (kV)	12	123 145 170					
	Rated voltage U (kV)		10-115	132-138	150-161			
	Rated frequency (Hz)	50	0/60	50/60	50/60			
	Lightning impulse voltage withstand BIL (kV)	±	550	± 650	±750			
	Switching impulse voltage withstand SIL (kV)	-		-	-			
$\neg \neg$	Weight							
	Net weight, complete CD20 Plug termination kit (kg)	33	3					
	Stress control							
	Field control method		Stress relief cone					
	Туре		remolded					
	Material	EF	PDM rubbe	er				
	Plug-in connector Type / Material Bolt / Al or Co							
		В	ZIC/ AI OI (<u> </u>				
	Cable type Type	Ev	trudad in	sulation				
	Conductor		Extruded insulation Al or Cu, stranded or solid					
	Screen / Sheath		u wire / lea		Jilu			
	Series of Street at		corrugated Al&Cu					
	Cable range							
	Prepared insulation diameter (mm)	44	44-96					
	Conductor, cross sectional area (mm²)		300-2000					
	Outer diameter (max diameter as standard) (mm)			130 PAL 2)	, 130 MET			
	Outer diameter (max diameter as standard) (mm) 1) CUW = Copper wire screen. 2) PAL = Poly aluminium laminate 3) MET = Metal sheath (lead, aluminium or copper)							
	Optional equipment							
	Screen connection kit for copper wire and poly aluminium lami		SCK					
	Screen connection kit for corrugated aluminium sheath		JSA AL					
	Screen connection kit for lead or corrugated copper sheath		JSA Pb					
	Optical fiber kit for optofiber in screen Installation tool		KT KM 170					
	Installation tool RKM 170 Routine test							
	All parts of the termination	Vi	Visual inspection					
	Stress relief cone routine tested		According to IEC 60840					
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Technical Data of CD20 Plug 123-170kV

Dry plug-in cable termination for CD20 Socket

Storage conditions

Maintenance

When stored dry in original, unopened packaging at temperatures in the range of -30°C to 30°C :

Stress relief cone	10 years	
Tapes and grease	5 years	
Metal hardwares	No limit	
Installation requirements Aproximate recommended ambient temperature during installation (°C)	+5 to +30	
Maximum installation angle from vertical position (°)	No limitatons	
Operation conditions		
Expected servicelife after installation (years)	>30	

Free

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