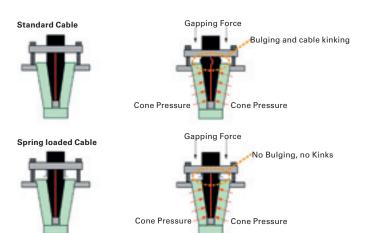
Spring-loaded Cable

Advantage of Spring-loaded Cable



Mechanical Spring

Elastomeric Spring



Benefits

- Higher system up-time
- Lower installation costs
- Lower maintenance costs
- Longer lifetime of cable and tube
- Flange with pressure indicator

What is different?

Spring-loaded cables replace the elastomeric spring by mechanical spring

What are the effects?

- Constant pressure in the receptacle over time since the metal section of the cable replaces the region where bulging normally occurs
- Gapping becomes less critical
- No over-gapping possible
- Reduction of discharges in the interface
- Improved field distribution at the transition cable – receptacle
- Eliminates need of re-gapping 24 hours after initial installation

Technical Data Cables

			U3/100	N3/160	P3/250	
Rated voltage			100 kVDC	160 kVDC	250 kVDC	
Nominal outside diameter			20 mm +/0.5	29.3 mm +/-1.5	36 mm +/–1.5	
Coverage shielding braid			>95%	>95%	>80%	
Conductor resistance Bare Conductor at 20 °C			6.6 mΩ/m	6.6 mΩ/m	6.6 mΩ/m	
Conductor resistance Red & White Cond. at 20°C			9.5 mΩ/m	11.4 mΩ/m	11.4 mΩ/m	
Minimum bending radius (dynamic)			80 mm	120 mm	148 mm	
Insulation resistance (wires to shield)			≥5x10¹²Ωm	≥1x10¹²Ωm	≥1x10¹²Ωm	
Capacitance (wires to shield)			136 pF/m	126 pF/m	107 pF/m	
Max. operating temperature			+70°C	+70°C	+70°C	
Combinations	R24SL	R24SLRA	R28SL	R28SLRA F	30SL R	30SLRA
U3/160 cable	100 kV	100 kV	-			

160 kV

225 kV

225 kV

160 kV

225 kV

Within the high voltage system the component with the lowest specified high voltage rating defines the maximum allowed voltage.

COMET

N3/160 cable

P3/250 cable

Technology with Passion

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160 kV

225 kV