

Hivoduct «pressurized air cables» are medium voltage and high-voltage cables for electrical energy transmission. Pressurized air cables are environmentally friendly, powerful, have reduced losses, are maintenance free, and non-flammable.

Pressurized air cable: Y065 series

Parameter	Value	Information
Rated voltage	65 kV - 72 kV	
Rated current	200 A - 2000 A	
Insulation media	Pressurized air	N2: 80%, O2: 20 %, dry
Inside pressure	<= 10 bar	BIL up to 125 kV
Conductor	Aluminum	High conductivity, > 28 m/Ω*mm ²
Cond. Cross section	2200 mm²	
Enclosure	Aluminium	Anticorodal. Nonflammable. D=100 mm
Enclosure type	Three-phase	Three phase enclosed.
Encl. Cross section	10500 mm²	
Bending radius	0 mm	Angle pieces 90° available
Short circuit current	40 kA, 1 s	
AC Test voltage	140 kV	Partial discharge level: < 5 pC @115kV
BIL Test voltage	+/- 350 kV	Acc. IEC 60060-1
Capacitance	49 pF/m	Per phase.
Inductance		Depends on layout
AC Resistance	15 µOhm/m	R _{AC} conductor @ 50 Hz
Magnetic field	< 1 µT	@ 1000 A in > 1 m distance
Enclosure temperature	< 50°C	@ 1000 A for > 8 h
	< 65°C	@ 2000 A for > 8 h
Losses	~47 W/m	@ 1000 A continuous current, 50 Hz
Components	Straight tube	Length available: 0.2 - 3m
	Bushing	Creepage & Flash-over distance adjustable.
	Angle 90°	
	Small angles	For continuous bending radius.
Pneumatic system	Festo ¼ inch	One-way valve, Filling, Manometer
Contact system	Spiral contacts	Contacts silver plated
Transport weight	< 350 kg	Per transport unit
Transport length	< 6 m	Per transport unit. Options for larger units.
Width 3ph	>= 600 mm	Trough width for 3ph pressurized air cable
Height 3ph	>= 600 mm	Trough height for 3ph pressurized air cable
Diameter 3ph	>= 600 mm	For 3ph in pipe or microtunnel
Grounding	Enclosure	All grounding options available.
Life expectancy	> 40 years	Expected lifetime. Maintenance free.
Reusable	Yes	Disassembly on each flange possible.

Pressurized air cables are best suitable for critical installations where high power, best fire protection, quick assembly and disassembly and reduced outside magnetic fields are required.

Other ratings on request.

Hivoduct Ltd. develops, produces, installs and licenses pressurized air cables.

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