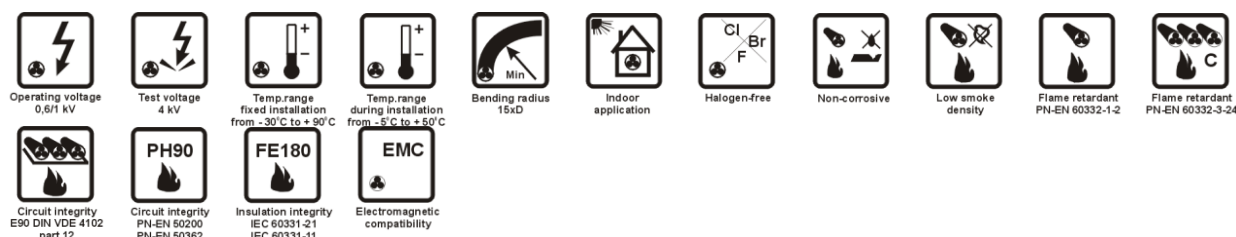


**(N)HXCH-J SERVO FE180 PH90/E90 0,6/1 kV**

page 1 of 2

**FIRE RESISTANT HALOGEN FREE MOTOR SUPPLY CABLES****APPLICATIONS**

**(N)HXCH-J SERVO FE180 PH90/E90 0,6/1 kV** fire resistant halogen free cables, are intended for connecting converters or inverters with motors in fire protection equipment which is to operate in fire conditions.

The cables shall be applied in locations where, in case of fire, higher safety for human beings and expensive electronic equipment is required.

**Functions of the cables are maintained** – power is supplied to equipment which must operate in fire conditions and during fire fighting (e.g. water pumps in fire extinguishing systems, smoke removing fans, emergency lighting and elevators).

The cables are certified by Scientific and Research Centre for Fire Protection - National Research Institute (Centrum Naukowo-Badawcze Ochrony Przeciwpowazarowej - PIB) at Józefów.

The cables are flame retardant and their smoke emission is low, emitted fumes are non toxic and non corrosive.

Cables are protected by a specially designed and highly effective collective shield against emission of electromagnetic interferences to environment and against influence of external interferences.

The cables are suitable for fixed indoor and outdoor installations. UV radiation protection is required for outdoor installations. Laying cables in water or direct earth burial are only permitted if additional protection is used.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- double special cross-linked silicone rubber insulation - colours of insulation: black, brown, grey, green-yellow,
- insulated conductors and fillers laid-up in a cable core,
- cable core wrapped in polyester tape,
- cable core wrapped in mica tape,
- double screen incorporating aluminium-polyester tape under a tinned copper wire braid shield of coverage bigger than 80%,
- orange cable sheath made of halogen free compound type HM4 according to HD 604 S1 and VDE 0276-604, (oxygen index bigger than 35%).

**(N)HXCH-J SERVO FE180 PH90/E90 0,6/1 kV**

page 2 of 2

**CHARACTERISTICS**

Operating voltage	0.6/1 kV	Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2
Voltage test	4 kV rms	pH appr.	6.8
Insulation resistance at 90°C, minimum	10 <sup>11</sup> Ω·cm	conductivity appr.	0.4 μS/mm
Inductance, approximate	0.7 mH/km	Smoke density	PN-EN 61034-2, IEC 61034-2
Shielding efficiency, approximate	75 dB	minimum light transmittance	70 %
Conductor temperature limit in work conditions	+ 90°C	Cable combustibility	fire resistant
in short-circuit	+ 250°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2, PN-EN 50266-2-4, IEC 60332-3-24 (cat. C)
Operating temperature range during operation	od - 30 do + 90°C	Circuit integrity: E90	DIN 4102-12
during installation	od - 5 do + 50°C	PH90	PN-EN 50200 or PN-EN 50362
Minimum bending radius	15 x cable diameter	Insulation integrity FE180	IEC 60331-21, IEC 60331-11
		Reference standards	AT-0603-0495/2016 WT-TK-44, PN-HD 604 S1

**Cable installation** - Only certified cable fixing systems shall be used. Systems certified according to DIN 4102 part 12 are recommended.

**CE** = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Fire Load (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km	kWh/m
1669 001	4x1,5	11.6	86.1	204	11.6
1669 002	4x50	36.8	2173	2772	36.8

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.