

TECHNOFLEX 3Plus 2XSLCH-J
TECHNOFLEX 3Plus 2XSLCHK-J**MOTOR SUPPLY CABLES****APPLICATIONS**

TECHNOFLEX 3Plus 2XSLCH-J and **TECHNOFLEX 3Plus 2XSLCHK-J** shielded halogen free cables with symmetrical construction are intended for connecting converters or inverters with motors in industrial installations, production plants, air-conditioners and other equipment operating in dry and wet locations.

Small mutual capacitance and higher, up to 90°C, operating temperature limit of conductors is offered due to application of cross-linked polyethylene insulation.

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 division of the protective conductor into 3 evenly distributed in the cable core (on the circumference of 120°) enabled to achieve a symmetrical distribution of fields and reduce the emission of electromagnetic interference into the environment in relation to the cables with four conductors.

Halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

TECHNOFLEX 3Plus 2XSLCH-J cables are suitable for indoor and **TECHNOFLEX 3Plus 2XSLCHK-J** cables for outdoor fixed and movable installations.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- cross-linked polyethylene (XLPE) insulation - black, blue, brown and green-yellow (protective conductor divided into 3 wires in a green-yellow),
- insulated conductors laid-up in a cable core, construction 3+3,
- double screen of aluminium laminated tape and braid of tinned copper wire, braid shield of coverage bigger than 80%,
- halogen free compound (HFFR) cable sheath of **TECHNOFLEX 3Plus 2XSLCH-J** cable, grey RAL 7001, other colours also available,
- halogen free compound (HFFR) cable sheath of **TECHNOFLEX 3Plus 2XSLCHK-J** cable, black RAL 9005, other colours also available.

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CHARACTERISTICS

Operating voltage U _o /U	0.6/1 kV	Minimum bending radius	
Voltage test	4 kV rms	static for diameters:	
Insulation resistance, minimum	200 MΩ·km	up to 12 mm	5 x cable diameter
Shielding efficiency, approximate	75 dB	from 12 to 20 mm	7.5 x cable diameter
Conductor temperature limit		from 20 mm	10 x cable diameter
in work conditions	+ 90°C	flexible for diameters:	
at short-circuit	+ 250°C	up to 12 mm	10 x cable diameter
Effective capacitance (according to different cross-sections)		from 12 to 20 mm	15 x cable diameter
conductor/conductor	70 to 250 nF/km	from 20 mm	20 x cable diameter
conductor/screen	110 to 410 nF/km	Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2
Operating temperature range		pH appr.	6.8
for fixed installation	from - 40 to + 70°C	conductivity appr.	0.4 μS/mm
for movable installation	from + 5 to + 70°C	Smoke density	PN-EN 61034-2, IEC 61034-2
		light transmittance, minimum	70 %
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		≥ 25 mm ²	PN-EN 60332-3-23, IEC 60332-3-23 (cat. B)
		< 25 mm ²	PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
		Reference standards	DIN VDE 0250

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.)	DC conductor resistance at 20°C, max.	Current-carrying capacity at temp. 30°C	Copper index	Cable weight (appr.)
	mm ²	mm	Ω/km	A	kg/km	kg/km
3Plus 2XSLCH-J						
1720 001	3x1,5+3G0,25	9.0	13.3	23	70.9	128
1720 002	3x2,5+3G0,5	10.5	7.98	32	111.6	180
1720 003	3x4+3G0,75	12.0	4.95	42	166.1	242
1720 004	3x6+3G1	14.0	3.3	54	244.5	340
1720 005	3x10+3G1,5	16.8	1.91	75	383.1	516
1720 006	3x16+3G2,5	19.9	1.21	100	617.3	780
1720 007	3x25+3G4	22.9	0.78	127	959.0	1470
1720 008	3x35+3G6	25.5	0.554	158	1320.1	1468
1720 009	3x50+3G10	32.8	0.386	192	1916.3	2210
1720 010	3x70+3G10	39.1	0.272	246	2533.9	3003
1720 011	3x95+3G16	43.3	0.206	298	3510.8	4011
1720 012	3x120+3G16	47.6	0.161	346	4270.8	4849
1720 013	3x150+3G25	52.0	0.129	399	5524.0	6047
1720 014	3x185+3G35	57.4	0.106	456	6881.6	7489
1720 015	3x240+3G50	65.8	0.0801	538	9021.7	9886

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3Plus 2XSLCHK-J						
1721 001	3x1,5+3G0,25	9.0	13.3	23	70.9	128
1721 002	3x2,5+3G0,5	10.5	7.98	32	111.6	180
1721 003	3x4+3G0,75	12.0	4.95	42	166.1	242
1721 004	3x6+3G1	14.0	3.3	54	244.5	340
1721 005	3x10+3G1,5	16.8	1.91	75	383.1	516
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TECHNOKABEL S.A. reserves the right to change specifications without prior notice.