

TECHNOFLEX 3Plus 2XSLCYn-J
TECHNOFLEX 3Plus 2XSLCYnK-J**MOTOR SUPPLY CABLES****APPLICATIONS**

TECHNOFLEX 3Plus 2XSLCYn-J and **TECHNOFLEX 3Plus 2XSLCYnK-J** shielded 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.

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

Sheathing PVC of high oxygen index is self-extinguishing and flame retardant. The cables pass combustibility test according to PN-EN 60332-3 standard.

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%,
- PVC cable sheath of **TECHNOFLEX 3Plus 2XSLCYn-J** cable, grey RAL 7001, other colours also available,
- PVC cable sheath of **TECHNOFLEX 3Plus 2XSLCYnK-J** cable, black RAL 9005, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEX 3Plus 2XSLCH-J - 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 2XSLCY-J
TECHNOFLEX 2XSLCYK-J

CHARACTERISTICS

Operating voltage U _o /U	0.6/1 kV	Operating temperature range for fixed installation	from - 40 to + 70°C
Voltage test	4 kV rms	for movable installation	from + 5 to + 70°C
Insulation resistance, minimum	200 MΩ·km	Minimum bending radius static for diameters:	
Shielding efficiency, approximate	75 dB	up to 12 mm	5 x cable diameter
Conductor temperature limit in work conditions	+ 90°C	from 12 to 20 mm	7.5 x cable diameter
at short-circuit	+250°C	from 20 mm	10 x cable diameter
Effective capacitance (according to different cross-sections) conductor/conductor	70 to 250 nF/km	flexible for diameters:	
conductor/screen	110 to 410 nF/km	up to 12 mm	10 x cable diameter
		from 12 to 20 mm	15 x cable diameter
		from 20 mm	20 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests ≥ 25 mm ²	PN-EN 60332-1-2, IEC 60332-1-2
		< 25 mm ²	PN-EN 60332-3-23, IEC 60332-3-23 (cat. B)
		Reference standards	PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
			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 2XSLCYn-J						
1599 008	3x1,5+3G0,25	9.8	13.3	23	70.9	148
1599 002	3x2,5+3G0,5	11.1	7.98	32	111.6	199
1599 003	3x4+3G0,75	12.6	4.95	42	166.1	263
1599 004	3x6+3G1	14.4	3.30	54	244.5	357
1599 005	3x10+3G1,5	17.0	1.91	75	383.1	528
1599 006	3x16+3G2,5	19.9	1.21	100	617.3	785
1599 001	3x25+3G4	22.9	0.780	127	959.0	1475
1599 007	3x35+3G6	25.5	0.554	158	1320.1	1475
1599 009	3x50+3G10	32.8	0.386	192	1916.3	2220
1599 010	3x70+3G10	39.1	0.272	246	2533.9	3016
1599 011	3x95+3G16	43.3	0.206	298	3510.8	4027
1599 012	3x120+3G16	47.6	0.161	346	4270.8	4866
1599 013	3x150+3G25	52.0	0.129	399	5524.0	6068
1599 014	3x185+3G35	57.4	0.106	456	6881.6	7514
1599 015	3x240+3G50	65.8	0.0801	538	9021.7	9917

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3Plus 2XSLCYnK-J						
1694 002	3x1,5+3G0,25	9.8	13.3	23	70.9	148
1694 003	3x2,5+3G0,5	11.1	7.98	32	111.6	199
1694 004	3x4+3G0,75	12.6	4.95	42	166.1	263
1694 005	3x6+3G1	14.4	3.30	54	244.5	357
1694 006	3x10+3G1,5	17.0	1.91	75	383.1	528
1694 007	3x16+3G2,5	19.9	1.21	100	617.3	785
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TECHNOKABEL S.A. reserves the right to change specifications without prior notice.