TECHNOKABEL®

CE RoHS

ISO 9001:2008

TECHNOFLEX 2XSLCYon-J

MOTOR SUPPLY CABLES

APPLICATIONS

TECHNOFLEX 2XSLCYon-J shielded cables 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.

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

The cables are oil-resistant and designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled.

The cables are suitable for indoor and outdoor installations connecting fixed and movable equipment.

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,
- insulated conductors laid-up in a cable core,
- double screen of aluminium laminated tape and braid of tinned copper wire, braid shield of coverage bigger than 80%,
- oil, petrol and UV radiation resistant and self-extinguishing (oxygen index bigger than 29%) PVC cable sheath, black RAL 9005, other colours also available.

AVAILABLE UPON REQUEST

TECHNOFLEX 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
Voltage test	4 kV rms
Insulation resistance, minimum	200 MΩ·km
Shielding efficiency, approximate	75 dB
Conductor temperature limit	
in work conditions	+ 90°C
at short-circuit	+250°C
Effective capacitance (according to different cross-sections)	
conductor/conductor	70 to 250 nF/km
conductor/screen	110 to 410 nF/km

Operating temperature range	
for fixed installation	from - 40 to + 70°C
for movable installation	from + 5 to + 70°C
Minimum bending radius	
static for diameters:	
up to 12 mm	5 x cable diameter
from 12 to 20 mm	7.5 x cable diameter
from 20 mm	10 x cable diameter
flexible for diameters:	
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	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
1394 001	4x1,5	9.9	13.3	23	80.2	148
1394 009	4x2,5	11.4	7.98	32	124.5	203
1394 005	4x4	13.3	4.95	42	186.5	288
1394 010	4x6	15.3	3.3	54	278.5	391
1394 002	4x10	18.4	1.91	75	442.6	611
1394 003	4x16	22.1	1.21	100	708.9	935
1394 004	4x25	25.3	0.78	127	1098.8	1320
1394 011	4x35	28.3	0.554	158	1501.6	1717

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
1394 006	4x50	36.3	0.386	192	2133.5	2541
1394 007	4x70	43.7	0.272	246	3003.1	3688
1394 008	4x95	48.0	0.206	298	4003.2	4693
1394 012	4x120	53.4	0.161	346	5159.6	6010
1394 013	4x150	57.9	0.129	399	6307.0	7117
1394 014	4x185	63.9	0.106	456	7764.3	8765
1394 015	4x240	73.1	0.0801	538	9926.7	11376

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