

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

**TECHNOFLEX 2XSLCYn-J** and **TECHNOFLEX 2XSLCYnK-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.

**TECHNOFLEX 2XSLCYn-J** cables are suitable for indoor and **TECHNOFLEX 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,
- 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%,
- PVC cable sheath of **TECHNOFLEX 2XSLCYn-J** cable, grey RAL 7001, other colours also available,
- PVC cable sheath of **TECHNOFLEX 2XSLCYnK-J** cable, 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**

page 2 of 2

## **CHARACTERISTICS**

|                                   |                  |                             |                                           |
|-----------------------------------|------------------|-----------------------------|-------------------------------------------|
| Operating voltage $U_0/U$         | 0.6/1 kV         | Operating temperature range |                                           |
| Voltage test                      | 4 kV rms         | for fixed installation      | from - 40 to + 70°C                       |
| Insulation resistance, minimum    | 200 MΩ·km        | for movable installation    | from + 5 to + 70°C                        |
| Shielding efficiency, approximate | 75 dB            | Minimum bending radius      |                                           |
| Conductor temperature limit       |                  | static for diameters:       |                                           |
| in work conditions                | + 90°C           | up to 12 mm                 | 5 x cable diameter                        |
| at short-circuit                  | +250°C           | from 12 to 20 mm            | 7.5 x cable diameter                      |
| Effective capacitance (according  |                  | from 20 mm                  | 10 x cable diameter                       |
| to different cross-sections)      |                  | flexible for diameters:     |                                           |
| conductor/conductor               | 70 to 250 nF/km  | up to 12 mm                 | 10 x cable diameter                       |
| conductor/screen                  | 110 to 410 nF/km | 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 <sup>2</sup>        | PN-EN 60332-3-23, IEC 60332-3-23 (cat. B) |
|                                   |                  | < 25 mm <sup>2</sup>        | 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 <sup>2</sup>                                | mm                           | Ω/km                                  | A                                       | kg/km        | kg/km                |
| <b>2XSLCYn-J</b> |                                                |                              |                                       |                                         |              |                      |
| 1705 007         | 4x1,5                                          | 10.5                         | 13.3                                  | 23                                      | 80.2         | 169                  |
| 1705 006         | 4x2,5                                          | 12.0                         | 7.98                                  | 32                                      | 124.5        | 228                  |
| 1705 005         | 4x4                                            | 13.7                         | 4.95                                  | 42                                      | 186.5        | 310                  |
| 1705 004         | 4x6                                            | 15.7                         | 3.3                                   | 54                                      | 278.5        | 416                  |
| 1705 008         | 4x10                                           | 18.6                         | 1.91                                  | 75                                      | 442.6        | 633                  |
| 1705 009         | 4x16                                           | 22.1                         | 1.21                                  | 100                                     | 708.9        | 953                  |
| 1705 003         | 4x25                                           | 25.3                         | 0.78                                  | 127                                     | 1098.8       | 1341                 |
| 1705 010         | 4x35                                           | 28.3                         | 0.554                                 | 158                                     | 1501.6       | 1742                 |
| 1705 011         | 4x50                                           | 36.3                         | 0.386                                 | 192                                     | 2133.5       | 2577                 |
| 1705 012         | 4x70                                           | 43.7                         | 0.272                                 | 246                                     | 3003.1       | 3736                 |
| 1705 002         | 4x95                                           | 48.0                         | 0.206                                 | 298                                     | 4003.2       | 4749                 |
| 1705 001         | 4x120                                          | 53.4                         | 0.161                                 | 346                                     | 5159.6       | 6077                 |
| 1705 013         | 4x150                                          | 57.9                         | 0.129                                 | 399                                     | 6307.0       | 7192                 |
| 1705 014         | 4x185                                          | 63.9                         | 0.106                                 | 456                                     | 7764.3       | 8854                 |
| 1705 015         | 4x240                                          | 73.1                         | 0.0801                                | 538                                     | 9926.7       | 11489                |

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|-------------------|------------------------------------------------|------------------------------|---------------------------------------|-----------------------------------------|--------------|----------------------|
|                   | mm <sup>2</sup>                                | mm                           | Ω/km                                  | A                                       | kg/km        | kg/km                |
| <b>2XSLCYnK-J</b> |                                                |                              |                                       |                                         |              |                      |
| 1717 001          | 4x1,5                                          | 10.5                         | 13.3                                  | 23                                      | 80.2         | 169                  |
| 1717 002          | 4x2,5                                          | 12.0                         | 7.98                                  | 32                                      | 124.5        | 228                  |
| 1717 003          | 4x4                                            | 13.7                         | 4.95                                  | 42                                      | 186.5        | 310                  |
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TECHNOKABEL S.A. reserves the right to change specifications without prior notice.