

## Suggested Copy for Lapp Limited in Farnell Catalogue

### Olflex® Servo 2YSLCY

**(Farnell: High EMC low capacitance double screened servo cables)**

#### Application

OLFLEX® SERVO 2YSLCY is a flexible cable having special EMC- performance due double shielded, low capacitance design. Ideal for frequency converters for variable speed of 3 - AC motors, small, medium and large sizes. Contrary to usage of PVC insulated cables, PE insulated cables shows significant reduction of useless reactive power always needed for charging and discharging the cable during operating of the frequency converter. This design also improves EMC noise situation of the whole drive system.

Cables are suitable in dry, damp and wet rooms/locations. Good resistance against acids, caustic solutions and certain oils at room temperature. Suitable for free, as well as for static use. Not suitable for continuously moving appliance under tensile load or if during flexing, accompanied by guidance.

#### Design

|             |                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor   | fine wire strand of bare copper, in acc. to IEC 60228 resp. VDE 0295 Cl. 5                                                                                                          |
| Insulation  | Polyethylene (PE) 2Y12 acc. V DE 0207-2                                                                                                                                             |
| Colour code | acc. HD 308 S2 NDE 0293-308 conductors colour coded with one gnye conductor.                                                                                                        |
| Twisting    | 4 conductors twisted together in one layer.                                                                                                                                         |
| Screening   | aluminium-mylar tape wrap, metal-side outwards, on top a tinned copper wire braid                                                                                                   |
| Sheath      | sheath made of PVC compound YM2 acc. V DE 0207 -5,<br>leadfree, flame retardant & selve-extinguishing , transparent resistant. flame retardant<br>& self-extinguishing, IEC 60332.1 |

EEU directives cables conforms to EEC 79/29 directive (Low Voltage Directive) Marking on the sheath

#### Electrical properties at 20°C

|                       |                        |              |          |
|-----------------------|------------------------|--------------|----------|
| Insulation resistance |                        | min. GΩ x cm | 20       |
| Transfer impedance    | at 30 MHz .            | Ω/km         | < 250    |
| Nominal voltage       | Uo/U                   | V            | 600/1000 |
| Test voltage          | core/core, core/screen | Ueff V       | 4000     |

#### Mechanical and thermal characteristics

|                               |                                                 |             |
|-------------------------------|-------------------------------------------------|-------------|
| Minimum bend radius           | single bending Cable-Ø Dia mm                   | 4 x D       |
|                               | multiple bending Cable-Ø Dia mm                 | 20 x D      |
| Permissible temperature range | static °C                                       | -40 to + 70 |
| Permissible pulling force     | °C                                              | -5 to + 70  |
| Flame propagation             | flame retardant to VDE 0482-332-1-2/IEC 60332-1 |             |