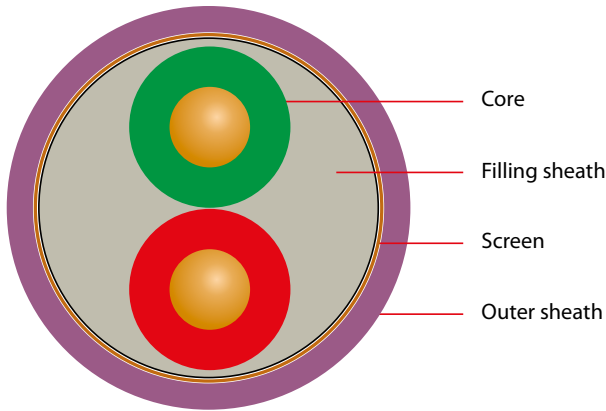


# 02YSY(St)CY-FR

acc. to DIN 19245 T3 and EN 50170  
(acc. Profibus specification)



| Dimension    | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km |
|--------------|---------------------|----------------------------|--------------------|
| 1 x 2 x 0.64 | 7.8                 | 70                         | 25                 |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |
|              |                     |                            |                    |

### APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as a connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information related component responds to the signal and processes it. Together with the appropriate tools and connectors the cable is appropriate for quick-assembly technology.

### CONSTRUCTION

- Conductor:** copper wire, solid, bare (AWG 22/1)
- Core insulation:** Foam-Skin PE
- Core identification:** red, green
- Core stranding:** 2 cores stranded
- Filling sheath:** filling compound
- Lapping:** plastic foil
- Screen:** Al/PETP compound foil; tinned copper wire braid; optical coverage approx. 80%
- Outer sheath:** PVC-FR; colour: violet RAL 4001

### BEHAVIOUR UNDER FIRE CONDITIONS

Fire retardant: IEC 60332-3-22 / 24, DIN EN 60332-3-22 / 24  
Low smoke and fume

### ELECTRICAL CHARACTERISTICS

|                                      |                 |
|--------------------------------------|-----------------|
| (Conductor) loop resistance max.     | 115 Ω/km        |
| Insulation resistance min.           | 1 GΩ x km       |
| Characteristic impedance (3 - 20MHz) | 150 ± 15 Ω      |
| Mutual capacitance nom.              | 30 nF/km        |
| Attenuation max. at                  |                 |
| 9.6 KHz                              | max. 2.5 dB/km  |
| 38.4 kHz                             | max. 4.0 dB/km  |
| 4.0 Mhz                              | max. 22.0 dB/km |
| 16.0 Mhz                             | max. 42.0 dB/km |
| Peak operating voltage               | 250 V           |
| Test voltage                         | 1500 V          |

### THERMAL & MECHANICAL PROPERTIES

|                                   |                |
|-----------------------------------|----------------|
| Temperature range stationary      | -30°C to +70°C |
| Minimum bending radius stationary | 80 mm          |

Subject to changes due to technical progress and error

