

# SY LSZH / BS EN 50525-3-11

## Multiconductor Screened Flexible Control Cable

pro-POWER



RoHS  
Compliant

### Application:

Used as interconnecting cable for measuring, controlling or regulation in control equipment for assembly and production lines, conveyors and for computer units. Suitable for fixed installations or for flexible use in conditions of light mechanical stress. Can be used outdoors when protected from direct sunlight, and in dry or moist conditions indoors. The braided screen offers the best possible protection against mechanical damage and offers a level of electro-magnetic shielding. The galvanized coating helps protect against corrosion.

### Construction:

#### Conductor

Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

#### Insulation

LSZH (Low Smoke Zero Halogen) Type T16 according to BS EN 50363

#### Bedding

LSZH (Low Smoke Zero Halogen) Type TM7 according to BS EN 50363

#### Braiding

GSWB (Galvanized Steel Wire Braid) minimum coverage of braiding shall be 50%

#### Sheath

LSZH (Low Smoke Zero Halogen) Type TM7 according to BS EN 50363-8

### Cable Standards

Generally to BS EN 50525-3-11 (BS 6500) and VDE0250, BS EN/IEC 60332-3, BS EN/IEC 60754-1 and 2, BS EN 50267-2-1 and 2, BS EN/IEC 61034-1

### Characteristics:

#### Voltage Rating (U<sub>o</sub>/U)

300/500V

#### Temperature Rating

-15°C to +70°C

#### Minimum Bending Radius

10 × overall diameter

#### Core Identification

Colour Coded Cores

3 core : Blue, Brown & Green/Yellow

4 core : Brown, Black, Grey & Green/Yellow

5 core : Blue, Brown, Black, Grey & Green/Yellow

#### Sheath Colour

Black

#### Note

SY Cables are not suitable for direct connection into the main service fuse.

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### Dimensions:

Part Number	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Bedding mm	Nominal Diameter of GSWB mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP000497	3	1.5	0.5	0.5	0.24	1	9	138
PP000498		2.5	0.6	0.5	0.24	1	10	188
PP000499	4	1.5	0.5	0.5	0.24	1	10	161
PP000500	5	2.5	0.6	0.6	0.24	1	12	264

### Conductors

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Max. Diameter of Wires in Conductor mm	Max. Resistance of Conductor at 20°C Plain Wires Ω / km
1.5	0.26	13.3
2.5	0.26	7.98

### Electrical Characteristics:

Current Carrying Capacity at 30°C

Nominal Cross Sectional Area mm <sup>2</sup>	Current Carrying Capacity	
	In Conduit Amps	In Air Amps
1.5	15	24
2.5	20	32

### Voltage Drop:

Nominal Cross Sectional Area mm <sup>2</sup>	Two Core Cable DC mV/A/m	Single-Phase Two Core Cable AC mV/A/m	Three-Phase Three Or Four Core Cable AC mV/A/m
1.5	29	29	25
2.5	18	18	15

### Part Number Table

Description	No. of Cores	Reel Length	Part Number
SY LSZH / BS EN 50525-3-11 Multiconductor Screened Flexible Control Cable	3	100m	PP000497
	4		PP000499
	5		PP000500

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