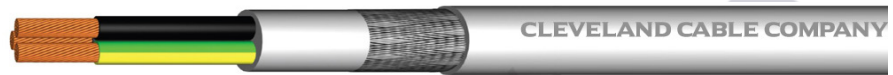
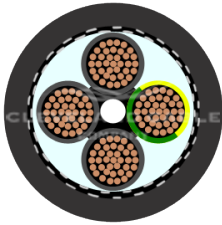


TYPE SY CONTROL CABLES LSZH



APPLICATION

SY control cable is used as a control cable in areas requiring light mechanical protection and areas where there is risk to life from fire, smoke emissions and toxic fumes. The cables are designed to be used as a connecting cable for measuring, control and regulation equipment for assembly, production lines and conveyor systems.

CABLE STANDARDS

Generally to BS EN 50525-3-11

VDE 0250

CY, SY and YY Cables are thoroughly tested under BSI kitemark KM712695 in our accredited lab prior to delivery.

The lab is audited by BSI as an independent 3rd party to verify that the testing procedures and the cable meet the standards and are fit for purpose

CONSTRUCTION

Conductor: Plain Annealed Stranded Copper Conductors

Insulation: LSZH insulated

Armouring: Galvanised Steel Wire Armour

Sheath: LSZH

Sheath Colour: Grey

CHARACTERISTICS

Voltage Rating: 300/500 Volts

Temperature Limits:

Static: -20°C to + 80°C

Flexing: -5°C to +70°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

3 Core and above: Black with white numbers plus

Also available with coloured cores as follows:

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey

Green/Yellow

Should not be installed at temperatures below -5°C

TYPE SY CONTROL CABLES LSZH - DIMENSIONS

CCC CODE	CONDUCTOR SIZE	STRANDING (MM)	NO. OF CORES	WEIGHT (KG/KM)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)
SY3X1/5LSF	1.5	30/0.25	3	143	8.60	20/16
SY4X1/5LSF	1.5	30/0.25	4	170	9.30	20/16
SY3X2/5LSF	2.5	50/0.25	3	190	9.90	20/16
SY4X2/5LSF	2.5	50/0.25	4	240	10.80	20/16
SY5X2/5LSF	2.5	50/0.25	5	247	11.50	20S
SY3X4LSF	4	56/0.3	3	323	12.20	20S
SY4X4LSF	4	56/0.30	4	354	13.40	20S
SY5X4LSF	4	56/0.30	5	392	15.00	20
SY3X6LSF	6	84/0.30	3	343	13.40	20S
SY4X6LSF	6	84/0.30	4	458	14.60	20
SY5X6LSF	6	847/0.30	5	572	16.70	20

TYPE SY CONTROL CABLE – CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM ²)	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR MM	MAXIMUM RESISTANCE CONDUCTOR AT 20°C
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

TYPE SY CONTROL CABLE – CURRENT CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM ²)	CURRENT CARRY CAPACITY AT 30°C IN AIR AMPS	CURRENT CARRY CAPACITY AT 30°C IN CONDUIT AMPS
0.75	16	9
1	20	12
1.5	24	15
2.5	32	18
4	42	26
6	54	34

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

TYPE SY CONTROL CABLE – VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA (MM ²)	TWO CORE CABLE DC MV/A/M	SINGLE PHASE TWO CORE CABLE AC MV/A/M	THREE PHASE 3 OR 4 CORE CABLE AC MV/A/M
1	44	44	38
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5
6	7.3	7.3	6.4

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS



THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.