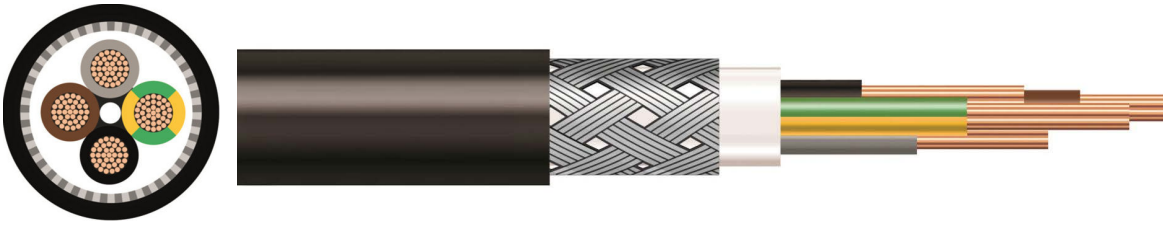
TYPE SY LSZH FLEXIBLE CONTROL CABLE



SY cables are designed as control cables to connect equipment in production and assembly lines, suitable for use between both fixed and mobile equipment, including air conditioning systems.

Ideal for instrumentation and control equipment, tooling machinery, and flexible applications requiring free movement without tensile load, SY cables are suitable for use in dry, moist, and wet rooms. The galvanized steel wire braid provides protection against mechanical traverse loads and acts as a magnetic screen against interference.

These cables are not intended for outdoor or underground installation. They are commonly used as interconnecting cables between fixed and mobile equipment in conveyors, assembly lines, production lines, and machine tool manufacture, where the galvanized steel wire braid armour offers excellent mechanical protection

CONDUCTOR	Plain Copper
STRANDING	Class 5
INSULATION	LSZH
BEDDING	LSZH
ARMOUR	Galvanised Steel Wire Braid
OUTERSHEATH	LSZH
OUTERSHEATH COLOUR	Black
RATED VOLTAGE	300/500V
CORE IDENTIFICATION	Two Core: Brown and Blue Three Core: Brown, Blue and Green/Yellow Four Core: Brown, Grey, Black and Green/Yellow Five Core: Brown, Grey, Black, Blue and Green/Yellow Seven Cores Plus: Black Numbered + 1 Green Yellow
MINIMUM BENDING RADIUS	10 x overall diameter
OPERATING TEMPERATURE	-15Â°C to +70°C

SPECIFICATION DATA

BATT Part No	No. of cores	Nominal cross sectional area of conductor	Nominal thickness of insulation	Nominal thickness of bedding	Nominal diameter of GSWB	Nominal diameter of sheath	Nominal overall diameter	Nominal Weight
73231	2	0.75					7.2	77
73232	2	1					7.7	89
73214	2	1.5	0.5	0.5	0.24	0.8	8.7	120
73233	3	0.75					7.6	88
73215	3	1	0.5	0.5	0.24	1	8.3	112
73208	3	1.5	0.5	0.5	0.24	1	9.0	135
73209	3	2.5	0.6	0.5	0.24	1	10.8	205
73210	3	4	0.6	0.6	0.24	1	12.2	275
73220	3	6	0.7	0.6	0.24	1.1	14.5	382
73221	3	10					17.4	601
73234	4	0.75					8.1	105
73235	4	1					8.7	123
73211	4	1.5	0.5	0.5	0.24	1	10.0	175
73212	4	2.5	0.6	0.5	0.24	1	11.5	245
73213	4	4	0.6	0.6	0.24	1	12.9	323
73222	4	6	0.7	0.6	0.24	1.1	16.5	493
73223	4	10					19.6	756
73226	4	16					22.4	1069
73236	5	0.75					8.8	117
73237	5	1					9.4	137
73216	5	1.5	0.5	0.5	0.24	1	10.8	200
73217	5	2.5	0.6	0.6	0.24	1	13.0	298
73224	5	4					15.6	456
73225	5	6	0.7	0.6	0.24	1.2	18.0	615
73227	5	10	0.8	0.8	0.3	1.2	21.6	918
73241	5	16	0.9	0.8	0.3	1.4	25.2	1300
73238	7	0.75					9.4	140
73239	7	1					10.1	166
73240	7	1.5					11.1	210
73202	12	0.75					12.9	292
73203	12	1					13.9	354
73242	12	1.5					14.3	334
73243	18	1.5					16.6	474
73244	25	1.5					19.8	648

CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm2	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20ºC - Plain Wires ohms/km
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95

6	0.31	3.3
10	0.41	1.91
16	0.41	1.21

Electrical Characteristics

Current Carrying Capacity at 30ºC

NOMINAL CROSS SECTIONAL AREA mm2	CURRENT CARRYING CAPACITY In Conduit (Amps)	CURRENT CARRYING CAPACITY In Air (Amps)
1	12	20
1.5	15	24
2.5	20	32
4	25	42
6	33	54
10	45	73
16	61	98

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm	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	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
10	4.4	4.4	3.8
16	2.8	2.8	2.4

DE-RATING FACTORS

NO. OF CORES	5	7	10	14	19	24	44	48
DE-RATING FACTOR	0.72	0.63	0.56	0.51	0.45	0.42	0.34	0.33

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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