

YY LSZH Control Flexible Cable

Technical Data

Conductor
Class 5 flexible plain copper conductors to
BS EN 60228:2005 (previously BS6360),
DIN VDE 0295:1995-06 or IEC 60228

Insulation
XLPE (Cross-Linked Polyethylene)

Sheath
LSZH (Low Smoke Zero Halogen)

Sheath Colour
Grey

Voltage Rating
300/500V

Temperature Rating
Fixed: -35°C to +85°C
Flexing: -5°C to +85°C

Minimum Bending Radius
10 x overall diameter

Core Identification
Black with White numbers
(3 cores and above includes Green/Yellow)
Coloured cores available



Dimensions

Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
-------------	--	----------------------------------	------------------------------------	-----------------------------------	-------------------------

YY LSZH Control Flexible Cable - 2 Cores

772-100	2 x 0.75	0.5	0.8	5.70	45.55
772-101	2 x 1.00	0.5	0.8	5.90	52.00
772-102	2 x 1.50	0.6	0.9	7.10	74.36
772-103	2 x 2.50	0.7	0.9	8.30	107.55

YY LSZH Control Flexible Cable - 3 Cores

772-104	3 x 0.75	0.5	0.8	6.04	53.67
772-105	3 x 1.00	0.5	0.8	6.26	62.35
772-106	3 x 1.50	0.6	0.9	7.54	89.01
772-107	3 x 2.50	0.7	1.0	9.04	135.28

Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/ Km
-------------	--	----------------------------------	------------------------------------	-----------------------------------	--------------------------

YY LSZH Control Flexible Cable - 4 Cores

772-108	4 x 0.75	0.5	0.8	6.58	65.08
772-109	4 x 1.00	0.5	0.9	7.02	79.61
772-110	4 x 1.50	0.6	0.9	8.23	108.93
772-111	4 x 2.50	0.7	1.0	9.87	166.70

YY LSZH Control Flexible Cable - 5 Cores

772-112	5 x 0.75	0.5	0.9	7.41	82.18
772-113	5 x 1.00	0.5	0.9	7.68	96.22
772-114	5 x 1.50	0.6	1.0	9.23	136.75
772-115	5 x 2.50	0.7	1.1	11.05	208.54

YY LSZH Control Flexible Cable - 7 Cores

772-116	7 x 0.75	0.5	0.9	8.05	100.68
772-117	7 x 1.00	0.5	1.0	8.55	123.46
772-118	7 x 1.50	0.6	1.0	10.05	169.67
772-119	7 x 2.50	0.7	1.2	12.25	267.06

YY LSZH Control Flexible Cable - 12 Cores

772-120	12 x 0.75	0.5	1.1	10.94	183.03
772-121	12 x 1.00	0.5	1.1	11.36	216.13
772-122	12 x 1.50	0.6	1.1	13.00	285.88
772-123	12 x 2.50	0.7	1.4	16.54	477.26

YY LSZH Control Flexible Cable - 18 Cores

772-124	18 x 0.75	0.5	1.2	12.95	260.18
772-125	18 x 1.00	0.5	1.3	13.65	315.49
772-126	18 x 1.50	0.6	1.3	15.61	417.15
772-127	18 x 2.50	0.7	1.6	19.75	691.76

YY LSZH Control Flexible Cable - 25 Cores

772-128	25 x 0.75	0.5	1.4	15.50	370.17
772-129	25 x 1.00	0.5	1.4	16.10	438.69
772-130	25 x 1.50	0.6	1.6	19.50	629.40

Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

1 Nominal Cross Sectional Area mm ²	2 Maximum Diameter of Wires in Conductor mm	3 Maximum Resistance of Conductor at 20°C Plain Wires ohms/Km
0.50	0.21	39.0000
0.75	0.21	26.0000
1.00	0.21	19.5000
1.50	0.26	13.3000
2.50	0.26	7.9800
4.00	0.31	4.9500
6.00	0.31	3.3000
10.00	0.41	1.9100
16.00	0.41	1.2100
25.00	0.41	0.7800
35.00	0.41	0.5540
50.00	0.41	0.3860
70.00	0.51	0.2720
95.00	0.51	0.2060
120.00	0.51	0.1610
150.00	0.51	0.1290

Electrical Characteristics

Current Carrying Capacity (amperes) at 30°C

Nominal Cross Sectional Area mm ²	Current Rating Amps
0.50	7
0.75	12
1.00	15
1.50	18
2.50	26
4.00	34
6.00	44
10.00	61
16.00	82
25.00	108
35.00	135
50.00	168
70.00	207
95.00	250
120.00	292
150.00	335

De-rating Factors

Multi-Conductor cables with cross sectional area up to 10mm²

No. of Cores	De-rating Factor
5	0.75
7	0.65
10	0.55
14	0.50
19	0.45
24	0.40
40	0.35
61	0.30