



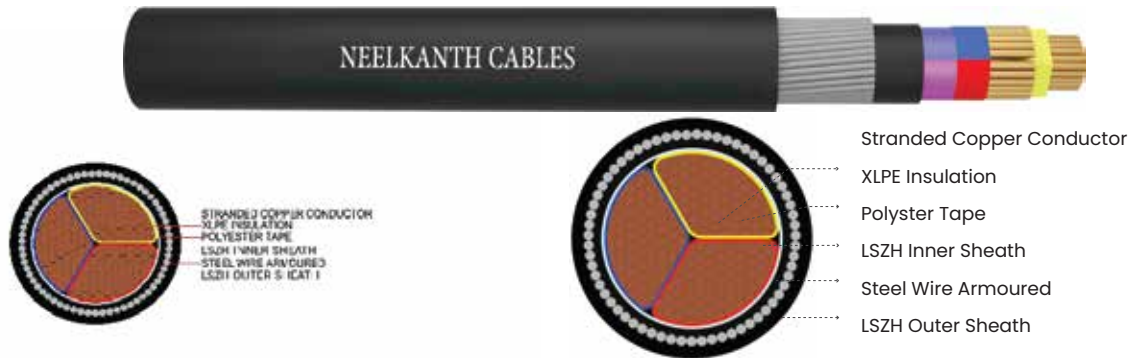
COPPER CONDUCTOR, XLPE INSULATED, ARMoured, LSZH SHEATHED, 600/1000V, **LOW VOLTAGE POWER CABLE, BS 6724**

Application	: These cables are used for electricity supply in low voltage installation system. They are well adapted to underground, outdoors, use in industrial applications where mechanical protections are needed. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.
Standards	: BS 6724
Construction Conductor	: Copper conductor, round stranded or shaped class 2 to BS EN 60228
Insulation	: Cross linked polyethylene (XLPE) to BS 7655-1.3
Insulation Colour	: 2C: Red & Black 3C: Red, Yellow & Blue 4C: Red, Yellow, Blue & Black 5C: Red, Yellow, Blue, Black & Green / Yellow (Other core colour also available on request)
Filler (Optional)	: Non Hygroscopic filler
Binder Tape (Optional)	: Polyester (Mylar)Tape
Bedding	: Extruded Low Smoke Zero Halogen (LSZH) thermoplastic in Black colour.
Armour	: Single Core: A single layer of Aluminium Wire Armoured (AWA) Multi core: A single layer of Galvanized Steel Wire Armour (GSWA)
Outer Sheath	: Extruded Low Smoke Zero Halogen (LSZH) thermoplastic as per BS 7655-6.1 in Black colour. (Other sheath colour also available on request)

Technical Characteristic

Voltage Grade	: 600/1000V
Conductor Operating Temperature	: -15°C to +90°C
Flame Retardent	: IEC 60332-1-2 & IEC 60332-3-24
Halogen Acid Gas Emission	: Max. 0.5% (IEC 60754-1)

3 CORE CABLES - 600/1000 V



3 Core Cables - 600/1000 V, CU Conductor, XLPE Insulation, Steel Wire Armoured, LSZH Sheathed

PHYSICAL PROPERTIES						
Catalogue Number	Nominal Cross Section Area	Nominal Insulation Thickness	Thickness of Bedding	Nominal Steel Wire Armour Dia.	Nominal Outer Sheath Thickness	Approx Overall Dia
	SQ.MM	MM	MM	MM	MM	MM
NLVC2XWH030015ST10BS	1.5*	0.6	0.8	0.9	1.3	12.0
NLVC2XWH030025ST10BS	2.5*	0.7	0.8	0.9	1.4	14.0
NLVC2XWH030040ST10BS	4*	0.7	0.8	0.9	1.4	15.0
NLVC2XWH030060ST10BS	6*	0.7	0.8	0.9	1.4	16.0
NLVC2XWH030100DST10BS	10*	0.7	0.8	1.25	1.5	19.0
NLVC2XWH030160DST10BS	16*	0.7	0.8	1.25	1.6	21.0
NLVC2XWH030250JST10BS	25	0.9	1.0	1.6	1.7	23.0
NLVC2XWH030350JST10BS	35	0.9	1.0	1.6	1.8	25.0
NLVC2XWH030500JST10BS	50	1.0	1.0	1.6	1.8	28.0
NLVC2XWH030700JST10BS	70	1.1	1	1.6	1.9	31.0
NLVC2XWH030950JST10BS	95	1.1	1.2	2.0	2.1	35.0
NLVC2XWH031200JST10BS	120	1.2	1.2	2.0	2.2	38.0
NLVC2XWH031500JST10BS	150	1.4	1.4	2.5	2.3	44.0
NLVC2XWH031850JST10BS	185	1.6	1.4	2.5	2.4	47.0
NLVC2XWH032400JST10BS	240	1.7	1.4	2.5	2.6	52.0
NLVC2XWH033000JST10BS	300	1.8	1.6	2.5	2.7	57.0
NLVC2XWH034000JST10BS	400	2.0	1.6	2.5	2.9	64.0

Notes: *1.5 Sq.mm to 16 Sq.mm Circular Conductor & Other shaped conductors.

The above data is indicative & may be changed without prior information.

Cables can be supplied in multiples of 1000/500/250 mtrs.or required by customer.

3 Core Cables – 600/1000 V, CU Conductor, XLPE Insulation, Steel Wire Armoured, LSZH Sheathed

ELECTRICAL PROPERTIES

Nominal Cross Section Area	Current Rating			Approx Voltage Drop of 3 core cables (3 Phase)	Reactance at 50 Hz	Capacitance for Cable (Approx)	Maximum DC Resistance at 20°C	Short Circuit Rating for 1 Sec.
	In Air	In Ground	In Duct					
	Three cables, Trefoil three Phase a.c.						CU.	CU.
SQ.MM	Amps(A)			V/A/km	Ohm/Km	µF/Km	Ohm/Km	kA(rms)
1.5	24	23	21	26.73	0.102	0.09	12.1	0.21
2.5	32	30	28	16.37	0.100	0.10	7.41	0.36
4.0	42	39	36	9.73	0.098	0.11	4.61	0.57
6.0	54	49	44	6.52	0.090	0.13	3.08	0.86
10	75	65	58	3.89	0.084	0.16	1.83	1.43
16	100	84	75	2.46	0.080	0.14	1.15	2.29
25	135	107	96	1.58	0.08	0.20	0.727	3.58
35	169	129	115	1.15	0.08	0.23	0.524	5.00
50	207	153	135	0.86	0.078	0.24	0.387	7.15
70	268	188	167	0.61	0.077	0.26	0.268	10.01
95	328	226	197	0.45	0.074	0.29	0.193	13.59
120	393	257	223	0.37	0.072	0.29	0.153	17.16
150	444	287	251	0.31	0.072	0.29	0.124	21.45
185	510	324	281	0.25	0.072	0.29	0.0991	26.46
240	607	375	324	0.20	0.072	0.31	0.0754	34.32
300	703	419	365	0.17	0.071	0.33	0.0601	42.9
400	823	480	415	0.16	0.07	0.33	0.0470	57.2

Notes: *1.5 Sq.mm to 16 Sq.mm Circular Conductor & Other shaped conductors.

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