NEELKANTH CABLES

Fire Resistant Cable

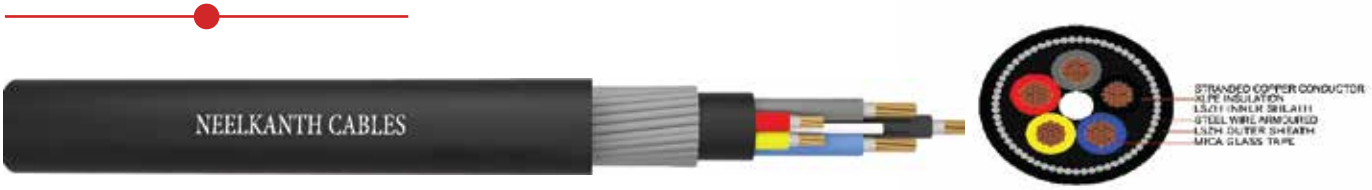
COPPER CONDUCTOR, MGT XLPE INSULATED ARMOURED, 600/1000V, LOW VOLTAGE POWER CABLE

Application	:	These power cables are used for electricity supply in low voltage installation system. They are well adapted to mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals and high-rise buildings, 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 7846
CONSTRUCTION		
Conductor	:	Copper conductor, round stranded or shaped class 2 to BS EN 60228
Fire Barrier	:	MGT (Mica Glass Tape)
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	:	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
Temperature Rating	:	-15^{0}C to +90^{0}C
Flame Retardent	:	IEC 60332-1-2 & IEC 60332-3-24
Fire Resistant	:	IEC 60331-21, BS 6387
Halogen Acid Gas Emission	:	Max. 0.5% (IEC 60754-1)

5 CORE CABLES - 600/1000 V



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

PHYSICAL PROPERTIES

Catalouge 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**
NLVC2XWH050015ST10FRBS	1.5*	0.6	0.8	0.9	1.4	17
NLVC2XWH050025ST10FRBS	2.5*	0.7	0.8	0.9	1.4	19
NLVC2XWH050040ST10FRBS	4*	0.7	0.8	0.9	1.5	20
NLVC2XWH050060ST10FRBS	6*	0.7	0.8	1.25	1.5	23
NLVC2XWH050100DST10FRBS	10*	0.7	0.8	1.25	1.6	25
NLVC2XWH050160DST10FRBS	16*	0.7	1.0	1.6	1.7	28
NLVC2XWH050250DST10FRBS	25*	0.9	1.0	1.6	1.8	33
NLVC2XWH050350DST10FRBS	35*	0.9	1.0	1.6	1.9	36
NLVC2XWH050500DST10FRBS	50*	1.0	1.2	2.0	2.0	42
NLVC2XWH050700DST10FRBS	70*	1.1	1.2	2.0	2.2	47

ELECTRICAL PROPERTIES

Nominal Cross Section Area	Current Rating			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.	CU.
SQ.MM	**Amps(A)**			**Ohm/Km**	**µF/Km**	**Ohm/Km**	**kA(rms)**
1.5	24	23	21	0.102	0.09	12.1	0.21
2.5	32	30	28	0.100	0.1	7.41	0.36
4.0	42	39	36	0.098	0.11	4.61	0.57
6.0	54	49	44	0.09	0.13	3.08	0.86
10	75	65	58	0.084	0.16	1.83	1.43
16	100	84	75	0.08	0.14	1.15	2.29
25	135	107	96	0.08	0.20	0.727	3.58
35	169	129	115	0.08	0.23	0.524	5.00
50	207	153	135	0.078	0.24	0.387	7.15
70	268	188	167	0.077	0.26	0.268	10.01

Notes: *1.5 Sq.mm to 70 Sq.mm Circular Conductor.

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.