NEELKANTH CABLES

Low Voltage Power Cable

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

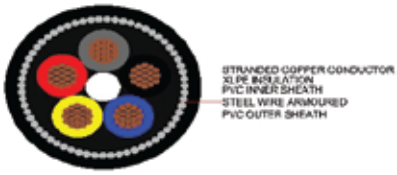
These cables are used for electricity supply in low voltage installation system.
They are well adapted to underground, outdoors, use in industrial applications where mechanical protections are needed.

Standard	:	IEC 60502-1
Construction Conductor	:	Aluminium or Copper conductor, round stranded or shaped class 2 to IEC 60228
Heat Brrier (Optional)	:	Mica Tape (High Temperature Sustaining Tape for Specical requirment of Fire Survival Cables Known as CIRCUIT INTEGRITY CABLES)
Insulation	:	Cross linked polyethylene (XLPE) to IEC 60502-1
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
Inner Sheath	:	Extruded PVC compatible with the operating temperature of the conductor in Black colour. (Specical Requirment Low Halogen Flame Retardent & Low Smoke Zero Halogen)
Armour	:	Single Core: A single layer of Aluminium Wire Armour (AWA) Multi core: A single layer of Galvanized Steel Wire Armour (GSWA)
Outer Sheath	:	Extruded PVC (Polyvinyl Chloride) type ST-2 to IEC 60502-1 in Black colour. (Specical Requirement Low Halogen Flame Retardent & Low Smoke Zero Halogen) (Other sheath colour also available on request)

Technical Characteristic

Voltage Grade	:	600/1000V
Temperature Rating	:	-15°C to +90°C
Flame Retardent	:	IEC 60332-1-2
Fire Resistance (Circuit Integrity Test)	:	IEC 60331, Category CWZ Test as per BS 6387 (Applicable only for Fire Survival Cable)
Halogen Acid Gas Emission	:	Max. 0.5% (IEC 60754-1: Applicable only for LSZH cables)

5 CORE CABLES - 600/1000 V



5 Core Cables - 600/1000 V, CU OR AL Conductor, XLPE Insulation, Steel Wire Armoured, PVC Sheathed

PHYSICAL PROPERTIES

Catalouge Number	Nominal Cross Section Area	Nominal Insulation Thickness	Thickness of Inner Sheath	Nominal Steel Wire Armour Dia.	Nominal Outer Sheath Thickness	Approx Overall Dia
	SQ.MM	**MM**	**MM**	**MM**	**MM**	**MM**
NLVC2XWY050015ST10	1.5*	0.7	1.0	0.9	1.8	15
NLVC2XWY050025ST10	2.5*	0.7	1.0	0.9	1.8	16
NLVC2XWY050040ST10	4*	0.7	1.0	1.25	1.8	18
NLVC2XWY050060ST10	6*	0.7	1.0	1.25	1.8	20
NLV*2XWY050100DST10	10*	0.7	1.0	1.25	1.8	23
NLV*2XWY050160DST10	16*	0.7	1.0	1.6	1.8	26
NLV*2XWY050250DST10	25*	0.9	1.0	1.6	1.8	30
NLV*2XWY050350DST10	35*	0.9	1.0	1.6	1.9	33
NLV*2XWY050500DST10	50*	1.0	1.2	2.0	2.1	38
NLV*2XWY050700DST10	70*	1.1	1.2	2.0	2.3	43

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	In Air	In Ground	In Duct						
	Three cables,Trefoil three Phase a.c.											
	CU.			AL.					CU.	AL.	CU.	AL.
SQ.MM	**Amps(A)**			**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	58	57	46	0.084	0.16	1.83	3.08	1.43	0.94
16	100	84	75	77	64	59	0.08	0.14	1.15	1.91	2.29	1.5
25	135	107	96	103	82	75	0.08	0.20	0.727	1.20	3.58	2.35
35	169	129	115	129	98	90	0.08	0.23	0.524	0.868	5.00	3.29
50	207	153	135	159	117	106	0.078	0.24	0.387	0.641	7.15	4.7
70	268	188	167	206	144	130	0.077	0.26	0.268	0.443	10.01	6.58

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

N(*) Add "A"for Aluminium Conductor & "C" for Copper 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.