



LASER POWER & INFRA PVT. LTD.

(Formerly LASER CABLES PVT. LTD.)

Corporate Office :

Woodburn Central, 5A, Woodburn Park, 5th Floor,

Unit No-502 & 503, Kolkata - 700 020

P : +91 33 2281 9201/02, F : +91 33 2281 9203

E : info@laserpowerinfra.com, CIN : U14220WB1988PTC043591

PROJECT	33 kV Line works at Asansol
CUSTOMER	
LOA REF	
CONTRACTOR:	CRYSTAL PROJECT & CONSULTANCY

Sl. No.	Technical Particulars	
1	MANUFACTURERS NAME & ADDRESS	M/S Laser Power & Infra Pvt. Ltd NH-6, PolyPark, Dhulagarh, Howrah
2	VOLTAGE GRADE	33/33 kV
3	CORES & CROSS SECTION	1x630 Sqmm
4	TYPE & DESIGNATION	A2XWwY
5	APPLICABLE STANDARD	IS: 7098 /P-2/2011
6	MAXIMUM CONDUCTOR TEMP	
a)	CONTINUOUS (IN DEG C)	90
b)	SHORT TIME (IN DEG C)	250
7	CONDUCTOR	
a)	MATERIAL TO IS 8130 (CLASS/GRADE)	H4 Grade Aluminium Class 2 as per IS:8130/1984
b)	SIZE IN SQ. MM.	630
d)	SHAPE OF CONDUCTOR	Stranded Compacted Circular
9	SHIELDING/SCREENING ON CONDUCTOR	
a)	MATERIAL	Semi Conducting Compound
b)	TYPE	Extruded Black
c)	THICKNESS IN MM.(Approx)	0.3
10	INSULATION	
a)	MATERIAL	XLPE AS PER IS:7098/P-2/2011
b)	TYPE	Extruded
c)	THICKNESS IN MM. (NOMINAL)	9.5
11	SHIELDING/SCREENING ON INSULATION	
a)	MATERIAL FOR NON METALLIC PART	Semi Conducting Compound and Semiconducting Tape
b)	MATERIAL FOR METALLIC PART	Copper Tape
c)	THICKNESS IN MM.	
	Semiconducting compound and Tape (Approx) IN MM.	0.3 (Extruded / 0.15 (Tape)
	Copper Tape (Approx) IN MM	0.03
12	ARMOURING	
a)	MATERIAL	Single Layer Aluminium wire armour as per IS : 3975/1999
b)	SHAPE	Round Wire
c)	SIZE IN MM NOMINAL	2.5
13	OUTER SHEATH	
a)	MATERIAL	FRLS PVC Type ST-2 as per IS:5831
b)	TYPE	Extruded PVC ST-2
c)	MINIMUM THICKNESS IN MM.	2.2
d)	COLOUR OF SHEATH	Black
14	APPROX OVERALL DIA OF CABLE IN MM	58.5
15	CONTINUOUS CURRENT RATING FOR STANDARD CONDITION LAID DIRECT	
a)	IN GROUND AT 30°C, AMP	660
b)	IN DUCT AT 30°C, AMP	560
c)	IN AIR AT 40°C, AMP	1020
16	SHORT CIRCUIT CURRENT (CONDUCTOR) FOR 1 SEC IN KA	59.22
17	ELECTRICAL PARAMETERS	
a)	MAX DC RESISTANCE/KM OF CONDUCTOR AT 20°C OHM/KM	0.0469
b)	AC RESISTANCE /KM OF CONDUCTOR AT 90°C OHM/KM APPROX	0.0600
c)	REACTANCE PER KM APPROX., OHM/KM	0.102
d)	CAPACITANCE PER KM APPROX, µF/KM	0.290
18	VOLUME RESISTIVITY AT 27°C OHM-CM	1x10 ¹⁴
19	VOLUME RESISTIVITY AT 90°C OHM-CM	1x10 ¹²
20	RECOMMENDED MINIMUM BENDING RADIUS	15 x OD
20	CABLE DRUMS	
a)	STANDARD LENGTH OF CABLE /DRUM IN METER	500±5%
b)	DIMENSION OF DRUM	As per IS:10418
21	SAFE PULLING FORCE IN N/SQ.MM.	30 N /SQMM
22	CABLE IDENTIFICATION SHALL BE	LASER 33/33KV ELECTRIC 1x630 SQMM A2XWwY ISI FRLS YEAR
23	THE CABLE SHALL BE TESTED AS SPECIFIED	AS Per IS:7098/P-2/2011



Regd. Off. : "Swaika Centre", 4A, Pollock Street, Room No. 307, 3rd Floor, Kolkata - 700 001

Works :

Unit - I : AT/PO : Biprannapara

Jalan Complex, P.S. : Domjur, Howrah - 711 411

Unit - II : NH-6, Poly Park

Dhulagori, Howrah - 711 302



www.laserpowerinfra.com