



LASER POWER & INFRA PVT LTD

Works : AT/P.O. : NH-6, Polypark, Dhulagori, Howrah, West Bengal, INDIA-711302.

ISO 9001 : 2015 Certified Company

DESIGN SHEET

Item Description : 30CX1.5 SQ.MM-ARM CABLE
Reference Specification No. : IRS : S 63 / 2014 Revision 4
Manufacturer Clearance Number :

Customer : RDSO
PO No. :
Project :
General Cable Type : Armoured
Order Quantity in Meters : 1000
Quantity Tolerance (%) : + 4 %,- 2 %
Voltage Grade : 1100V

Conductor

Conductor size (sq.mm) : 1.5
Conductor Material : Annealed Bare Copper
Reference Specification No. : IRS : S 63 / 2014 Revision 4
Conductor Type : Solid
Dia of each Strands (in mm) : 1.400
Number of Strands : 1
Conductor Dia (in mm) : 1.400 to 1.425

Insulation

Insulation Material : Extruded PVC TYPE A
Reference Specification No. : IRS : S 63 / 2014 Revision 4
Insulation Thickness Min. (in mm) : 0.80
Insulation Thickness Max. (in mm) : 0.90
Insulation Colour : Grey With Number Printing (1 to 30)
Insulation Core Dia Min. (in mm) : 3.00 to 3.20

Tape OverLaidup

Laidup of Core (Final Layer in RHS) : 4-10-16
Laidup Cable Dia (Approx) (in mm) ± 1.00 mm : 19.2
Tape Wrapping Type Over Laidup : Helical
Tape Material Over Laidup : Ployster Tape
Tape Thickness Over Laidup (in mm) : 0.025/30
Tape Overlap % Over Laidup : 25
Dia Over Tape Over laidup (in mm) ± 1.00 mm : 19.3

Inner Sheath

Inner Sheath Type : Tubing
Inner Sheath Material : Extruded PVC ST1
Reference Specification No. : IRS : S 63 / 2014 Revision 4
Inner Sheath Colour : GREY
Inner Sheath Thickness Min. & Max. (in mm) : 1.00 to 1.10
Dia Over Inner Sheath (in mm) : 21.30 to 21.50
Rip Cord : Provided



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Armouring (Double Strip Tape)

Armour Material	: GALVANISED STEEL
Armour Material Ref Std	: AS PER IS - 3975
Armour Wire Type	: DST
Armour Size (in mm)	: 0.500 x 35
Armour Number of G.I. Wire / Strip / Tape	: 2
Diameter Over Armour (in mm)	: 23.30 to 23.50

Outer Sheath

Outer Sheath Type	: Tubing
Outer Sheath Material	: Extruded PVC ST1
Reference Specification No.	: IRS : S 63 / 2014 Revision 4
Outer Sheath Colour	: BLACK
Outer Sheath Thickness (in mm)	: 2.00 to 2.10
Dia. Over Outer Sheath (in mm)	: 27.30 to 27.70

Hot Embossing

LASERPOWER IRS : S 63 / 2014 Revision 4 / Month and Year / Drum Number / 30CX1.5 SQ.MM-ARM CABLE

Ink Jet Printing Text

Sequential Length Marking [SLM *0000]

Note :- Every drum should be clearly marked 0000 at bottom end.

Electrical Parameters

Conductor Resistance (Ohms/Km) at 20 Deg.C (Max)	: 11.67
Ins Res (Min)M.Ohms/Km @ Room Temp	: 100
HV Test-Core to Core	: 4KV for 5 Minutes
HV Test-Core to Armour	: 4KV for 5 Minutes
Spark Test for Insulation	: 6KV at 3000Hz