



# 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** : 4CX1.5 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** : Red, Yellow, Blue & Black  
**Insulation Core Dia Min. (in mm)** : 3.00 to 3.20

## **Tape OverLaidup**

**Laidup of Core (Final Layer in RHS)** : 4  
**Laidup Cable Dia (Approx) (in mm)  $\pm 1.00$  mm** : 6.5  
**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)  $\pm 1.00$  mm** : 6.6

## **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)** : 8.60 to 8.80  
**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	: G.I. Wire
Armour Size (in mm)	: 1.4
Armour Number of G.I. Wire / Strip / Tape	: 25 $\pm$ 1
Diameter Over Armour (in mm)	: 11.40 to 11.60

## 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)	: 1.80 to 2.00
Dia. Over Outer Sheath (in mm)	: 15.00 to 15.60

## Hot Embossing

LASERPOWER IRS : S 63 / 2014 Revision 4 / Month and Year / Drum Number / 4CX1.5 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