



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	: 3CX10 SQ.MM-ARM CABLE - WIRE
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)	: 10
Conductor Material	: Annealed Bare Copper
Reference Specification No.	: IRS : S 63 / 2014 Revision 4
Conductor Type	: Multistrand
Dia of each Strands (in mm)	: 1.400
Number of Strands	: 7
Conductor Dia (in mm)	: 4.200 to 4.300

Insulation

Insulation Material	: Extruded PVC TYPE A
Reference Specification No.	: IRS : S 63 / 2014 Revision 4
Insulation Thickness Min. (in mm)	: 1.00
Insulation Thickness Max. (in mm)	: 1.10
Insulation Colour	: Red, Yellow & Blue
Insulation Core Dia Min. (in mm)	: 6.20 to 6.40

Tape OverLaidup

Laidup of Core (Final Layer in RHS)	: 3
Laidup Cable Dia (Approx) (in mm) ± 1.00 mm	: 13.9
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	: 14

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)	: 16.00 to 16.20
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)	: 1.6
Armour Number of G.I. Wire / Strip / Tape	: 28 ± 2
Diameter Over Armour (in mm)	: 19.20 to 19.40

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)	: 23.20 to 23.60

Hot Embossing

LASERPOWER IRS : S 63 / 2014 Revision 4 / Month and Year / Drum Number / 3CX10 SQ.MM-ARM CABLE - WIRE

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