



**PRODUCT ENGINEERING / V & SB
TECHNICAL DELIVERY CONDITIONS FOR
SUBDELIVERY COMPONENTS OF SOOT BLOWERS**

TSB : 005

Rev. 03

SHEET No. 01 of 01

CABLE SINGLE CORE 1.5 mm²

- 1.0 Component : Cable Single core 1.5 mm²
- 1.1 Material Code : 330021620000
- 1.2 Application : Used in Wall Deslagger and Rotary Blower.
- 2.0 Specification :
- 2.1 Conductor : Single conductor (1 Core)
- 2.2 Area of conductor : 1.5 mm² Multi strand.
- 2.3 Material of conductor : (7 strands) Tinned copper.
- 2.4 Insulation : PVC unsheathed.
- 2.5 Voltage rating : 600/1100V
- 2.6 Color of sheathing : Red
- 2.7 In general the method of manufacture should confirm to IS 694
- 3.0 Inspection Test certificate:
- 3.1 Inspection shall be carried out by BHEL Inspector at BHEL Works (A)
- 3.2 Testing should be done as per IS 694 at supplier's works and test certificates shall be supplied.
- 4.0 Quantity : 5 meters per wall deslagger and one meter per Rotary blower.
- 5.0 Spares : 5% extra may be ordered to cater the manufacturing reserve.
- 6.0 Packaging : The wire should be wound on wooden drum with suitable end plugs and despatched in wooden boxes.
- 7.0 Storing : To be stored under covered area.
- 8.0 Approximate weight : 0.03 kg per meter.

(A) For Internal Use.

- i. Check for Area, No. of Strands, Color.
- ii. Check whether the supplier has provided the test certificate.

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Prepared (K.SRIDHARAN)

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Approved (S.NATARAJAN)



**PRODUCT ENGINEERING / V & SB
TECHNICAL DELIVERY CONDITIONS FOR
SUBDELIVERY COMPONENTS OF SOOT BLOWERS**

TSB : 007

Rev. 03

SHEET No. 01 of 01

3 x 2.5 mm² PVC INSULATED PVC SHEATHED UNARMoured CABLE

1. Component : 3 Core 2.5mm² PVC insulated PVC sheathed unarmoured flexible cable (chord).
2. Material code : 33 002 146 0000
3. Application : For wiring rotary motor to Limit switch in wall blower.
4. Specification :
 - 4.1. No. of core : 3
 - 4.2. Area : 2.5 mm² (36 strands / 0.3 mm or 80/0.2mm)
 - 4.3. Construction : Multi stranded annealed tinned copper.
 - 4.4. Insulation : PVC
 - 4.5. Voltage rating : 600/1100V
 - 4.6. Sheathing : PVC
 - 4.7. Core assembly : 3 conductors coloured red, yellow and blue.
 - 4.8. Overall diameter of the cable should be 11 +0.65 / -0.40 mm.
 - 4.9. In general the construction should confirm IS 5831 / 1984.
5. Inspection, testing and certificates :
 - 5.1 Testing & Test certificate shall be as per IS 8130/1984.
6. Packing : The cables are to be wound on a wooden drum with suitable protection on the ends and must be packed & supplied in card board boxes.
7. Storage : It shall be stored under covered roof and exposing to atmosphere will damage the material.
8. Approximate weight : 0.6 kg / meter.

Inspection shall be conducted by BHEL inspector at BHEL works for the following :

1. Check for O.D. dimensional correctness.
2. Check for colour codes, core sizes & number of strands.
3. Check whether the supplier has provided test certificate.

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Prepared (J.SANKAR)

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Approved (K.SRIDHARAN)



**PRODUCT ENGINEERING / V & SB
TECHNICAL DELIVERY CONDITIONS FOR
SUBDELIVERY COMPONENTS OF SOOT BLOWERS**

TSB :044

Rev. 05

SHEET No. 01 of 01

3 CORE 2.5 mm² PVC INSULATED PVC SHEATHED ARMORED CABLE

Sl. No.	Description	Requirements
1.0	Component	3 core 2.5 mm ² PVC insulated PVC sheathed armored cable.
1.1	Material Code	96 353 328 0000 96 353 010 0000 - FRLS-HRPVC CABLE (3CX2.5)
1.2	Application	For wiring Terminal box to Limit Switch and Potentiometer of Temp. Probe & Long Retractable SB.
2.0	Specification	
2.1	Number of core	3
2.2	Area	2.5 mm ² (36 strands / 0.3mm)
2.3	Material of conductor	Multi stranded Annealed tinned copper.
2.4	Insulation	PVC insulated with armored around the insulating 3 cores and also with outer PVC sheathing to a OD of 14.5 mm. Armor wire diameter should be 0.8mm.
2.5	Voltage rating	600/1100 V
2.6	Core assembly	3 conductors coloured with red, blue and yellow.
2.7	Cable size	The overall diameter of the cable should be 14.5 mm
In general the construction should conform to IS 1554: Part 1: 1988		
3.0	<u>Testing and Inspection</u> (a) Testing should be as per IS 1554: Part 1: 1988 and a certificate is to be supplied. (b) Inspection shall be done by BHEL inspector for the following: (i) To check for dimension of O.D. Colour codes, strands and core sizes. (ii) Check whether the supplier has provided test certificate.	
4.0	Packaging	Cables are to be wound on a wooden drum with suitable protection at the ends and must be packed and supplied in card board boxes.
5.0	Quantity	Length varies from contract to contract.
6.0	Spare requirements	10% of the total quantity required for manufacturing reserve.
7.0	Storage	It shall be stored under covered area. Exposing to atmosphere will damage the material.
8.0	Approximate Weight	0.5 kg/meter.

Rev:05 Dt.18/09/2009.

Armor wire diameter 0.8mm introduced.

Prepared (J.SANKAR)

DATE:
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Approved (K.SRIDHARAN)