



TECHNICAL SPECIFICATION FOR SHIELED CABLES
FOR GRAVIMETRIC FEEDER

<u>S.NO.</u>	<u>PARAMETER</u>	<u>REQUIREMENT</u>
<u>A.</u>	<u>GENERAL CONDITION</u>	
1.	Applicable Standards	IS 1596 Latest, IS 5608 Part I Latest, IS 5831 Latest, IS 8130 Latest, IS 5959 Part I Latest, IS 6474 Latest
2.	Application	For connecting feeder mounted Tacho generator and Fdr. Integral cabinet
3.	Type	Twisted pair
4.	Conductor material	Annealed tinned copper
5.	Conductor size	16 AWG Stranded with 18AWG stranded annealed tinned copper drain wire
6.	Insulation material	Polyethylene
7.	Sheath material	Chrome coloured HR PVC Type ST-2 jacket as per IS 5831 Latest
8.	Shielding	Mylar backed aluminium tape 100% coverage
9.	Thickness of shield	Minimum 2.35 mil
10.	Operating temperature	-20°C to +80°C
11.	Voltage gradient	660/1100 Volts
12.	Mutual capacitance	100 Pf/meter(max)
13.	Conductor Resistance	As per IS 8130 Latest
14.	Inductance	0.9mh/km(max)
15.	No of Cores	Two
16.	Colour coding of cores	Black and Clear
17.	No of Twists	17 Twists per meter (RH lay)
18.	Duty	To carry 24 pole AC tacho O/P signal (45 V AC/1000RPM)
19.	Flame retardant property	Required for the finished cable
<u>B.</u>	<u>GENERAL REQUIREMENTS</u>	
1.	Packing	In drums of 1000 metres $\pm$ 5%
2.	Non – standard length	5% of the total length minimum length acceptable is 20 metre.

Bharat Heavy Electricals Limited
HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI 620 014.

Specn.No: GF-158 /Rev.00

Date: 30.09.91

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| 3. | Printing of manufacturers name & voltage grade | To be printed on the outer surface of the sheath at intervals not exceeding 625mm |
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C. INSPECTION & TESTING

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| 1. | Following tests shall be carried out and test certificates shall be furnished. | |
| | a) Routine test | (i) High voltage test
(ii) Conductor resistance
(iii) Mutual capacitance |
| | b) Type test | As per IS 1596, IS 5831 and other relevant IS |
| | c) Acceptance test | As per IS 1596, IS 5831 and other relevant IS
Flame retardant property as per IEEB 383, IEC 332. 1 & SS 424175. |

Note: Quality plan shall be submitted along with the offer for BHEL Approval.

Prepared: DMB thru PC

Checked: DMB

Approved: SSM