

WIRE - MPSPOE

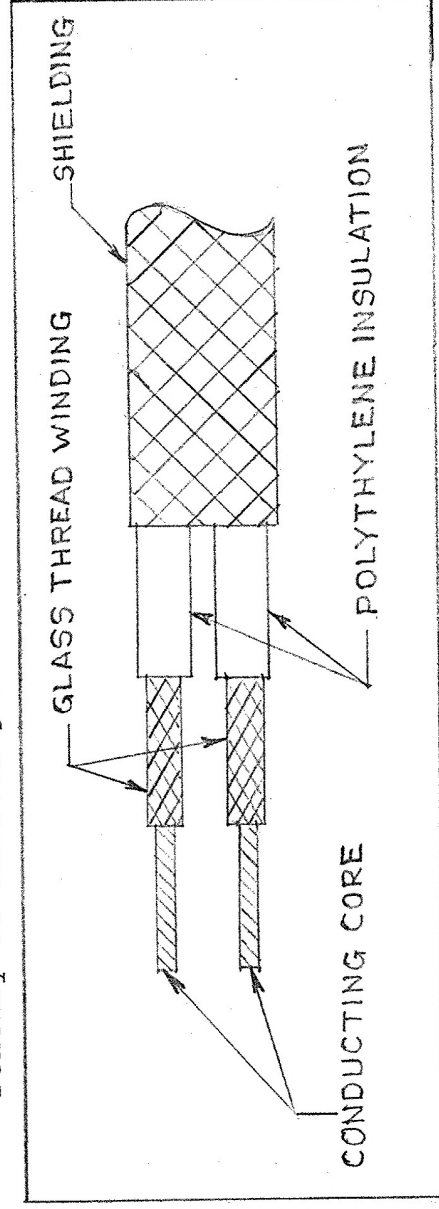
(2 Core Polythylene insulated overall shielded)

1. Construction- Design, dimension and electrical resistance of current carrying core to DC should be as per following table:-

S.No.	Number of Vcins and nominal sectional area of conductor mm Sqr.	Number and diameter of strands in current carrying core (for each vein)	Nominal radial Thickness of insulation, mm (for each vein)	External diameter of wire with shielding (for each vein) Min.: Max.	Electric resistance Ohm/Km max.	Weight Kg/Km
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01.	2X0.35 +6X0.26	1x0.25 +6X0.26	0.36	4.2 4.6	65	21.4
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- a) The current conducting conductor must be made from copper wire tinned with tin and lead, and the central strand should be strengthened by steel tinned wire.
- b) Insulation should be made from glass thread winding laid on core and polythylene.
- c) A shield of 0.12 mm nominal diameter must be applied over insulation in the form of braiding form tinned copper wires. Density of shielding should be 75% minimum.



2. Operating Voltage 250 V DC or 250 V AC, 2000 Hz.
3. Insulation resistance after keeping the wire in the water for 1hr. at a temp. of 20 Deg. C. should be not less than 100000 M.Ohm.
4. Insulation resistance of wire before overlapping the screen, measured after 10 Minutes of keeping at a temp. of 250 Deg.C. should be atleast 100 $\frac{M}{m}$ Ohm.

5. Wire should withstand test voltage 1500 V of AC, frequency 50 Hz. for 1 Minute.
6. Operating temp. range ----- -50 Deg. C. to + 70 Deg. C.
7. Colours of insulation ----- any two colours.
8. Service period of wire should be 12 years.

Note : The above specification has been extracted originally from TY 16-505.475- 73. For detail/clarification original should be referred.

APPROVED BY

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