

15 Electrical tests after installation

Tests on new installations are carried out when the installation of the cable and its accessories has been completed.

A d.c. oversheath test according to 15.1 and/or an a.c. insulation test according to 15.2 is recommended. For installations where only the oversheath test according to 15.1 is carried out, quality assurance procedures during installation of accessories may, by agreement between the purchaser and contractor, replace the insulation test.

15.1 DC voltage test of the oversheath

The voltage level and duration specified in Clause 5 of IEC 60229 shall be applied between each metal sheath or metallic screen and the ground.

For the test to be effective, it is necessary that the ground makes good contact with all of the outer surface of the oversheath. A conductive layer on the oversheath can assist in this respect.

15.2 AC voltage test of the insulation

The a.c. test voltage to be applied shall be subject to agreement between the purchaser and the contractor. The waveform shall be substantially sinusoidal and the frequency shall be between 20 Hz and 300 Hz. A voltage according to Table 4, column 9, shall be applied for 1 h.

Alternatively, a voltage of U_0 may be applied for 24 h.

NOTE For installations which have been in use, lower voltages and/or shorter durations may be used. Values should be negotiated, taking into account the age, environment, history of breakdowns, and the purpose of carrying out the test.

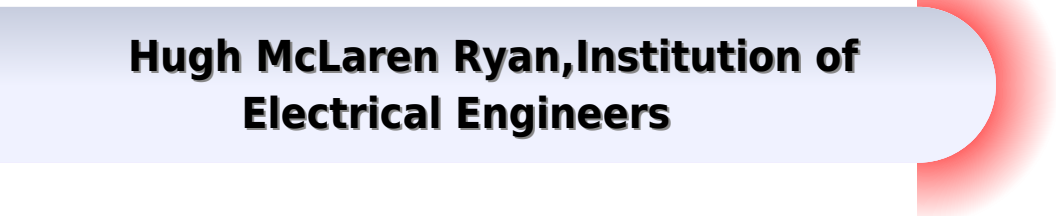
Table 1 – Insulating compounds for cables

Insulating compound		Maximum conductor temperature °C	
		Normal operation	Short-circuit (maximum duration 5 s)
Low density thermoplastic polyethylene	(PE)	70	130 ¹⁾
High density thermoplastic polyethylene	(HDPE)	80	160 ¹⁾
Cross-linked polyethylene	(XLPE)	90	250
Ethylene-propylene rubber	(EPR)	90	250
High modulus or hard grade ethylene-propylene rubber	(HEPR)	90	250

¹⁾ For PE and HDPE, short-circuit temperatures up to 20 °C in excess of those shown may be acceptable with suitable semi-conducting layers over the conductor and the insulation and by agreement between manufacturer and purchaser.

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**Hugh McLaren Ryan, Institution of
Electrical Engineers**



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