

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC 60502-2
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**Power cables with extruded insulation and their accessories for rated voltages from
1 kV ($U_m = 1,2$ kV) up to 30 kV ($U_m = 36$ kV)**

Part 2: Cables for rated voltages from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV)

CORRIGENDUM 1

Table 16 – Non-electrical type tests (see Table 17 to Table 23 and Table 25)

Replace the existing Table 16 modified by Amendment 1 with the following new Table 16:

Designation of compounds (see 4.2 and 4.3)	Insulations				Sheaths						
	PVC/B	EPR	HEPR	XLPE	PVC		PE		Halogen free		SE ₁
					ST ₁	ST ₂	ST ₃	ST ₇	ST ₈	ST ₁₂	
<i>Dimensions</i>											
Measurements of thicknesses	x	x	x	x	x	x	x	x	x	x	x
<i>Mechanical properties</i> (tensile strength and elongation at break)											
Without ageing	x	x	x	x	x	x	x	x	x	x	x
After ageing in air oven	x	x	x	x	x	x	x	x	x	x	x
After ageing of pieces of complete cable	x	x	x	x	x	x	x	x	x	x	x
After immersion in hot oil	—	—	—	—	—	—	—	—	—	—	x
<i>Thermoplastic properties</i>											
Hot pressure test (indentation)	x	—	—	—	x	x	—	x	x	x	—
Behaviour at low temperature	x	—	—	—	x	x	—	—	x	x	—
<i>Miscellaneous</i>											
Loss of mass in air oven	—	—	—	—	—	x	—	—	—	—	—
Heat shock test (cracking)	x	—	—	—	x	x	—	—	—	—	—
Ozone resistance test	—	x	x	—	—	—	—	—	—	—	—
Hot set test	—	x	x	x	—	—	—	—	—	—	x
Water absorption	x	x	x	x	—	—	—	—	x	—	—
Thermal stability	x	—	—	—	—	—	—	—	—	—	—
Shrinkage test	—	—	—	x	—	—	x	x	—	x	—
Carbon black content *	—	—	—	—	—	—	x	x	—	—	—
Determination of hardness	—	—	x	—	—	—	—	—	—	—	—
Determination of elastic modulus	—	—	x	—	—	—	—	—	—	—	—
Strippability test **											
<i>Fire performance tests</i>											
Flame spread test for single cables (if required)	—	—	—	—	x	x	—	—	—	—	x
Flame spread test for bunched cables (if required)	—	—	—	—	—	—	—	—	x	x	—
Measurement of smoke density of cables burning (19.16.4)	—	—	—	—	—	—	—	—	x	x	—
Determination of acidity (by pH) and conductivity (19.16.5)	—	—	—	—	—	—	—	—	x	x	—
Fire performance test on oversheath material	—	—	—	—	—	—	—	—	x	x	—
Measurement of content of halogen gases (IEC 60754-3)	—	—	—	—	—	—	—	—	—	x	—
Water penetration test ***											
NOTE x indicates that the type test is applied. * For black oversheaths only. ** To be applied to those designs of cable where the manufacturer claims that the insulation screen is strippable. *** To be applied to those designs of cable where the manufacturer claims that barriers to longitudinal water penetration have been included.											