

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of TL -132)

Laboratory Name: RTRC Limited
Plot No. – 296, Sector-7, Phase-II, Industrial Estate,
IMT Manesar, Gurugram, Haryana-122050 India

Validity: 31.12.2025 to 16.06.2026(Extension of Scope) **Amended on:** N/A

Electronics Testing (Laboratory based)

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
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Group: Insulation (Cable Testing)

1	Elastomer insulated cables for fixed wiring in ships and on mobile and fixed offshore units	Resistivity of extruded semiconducting screen	BS 6883:1999	pH & conductivity meter, HV test set, flame retardant test apparatus for buched cables, 3m3 chamber with smoke emission test apparatus, Partial discharge test set, impulse test set, tendelta & capacitance bridge
		Insulation screen strippability		
		Partial discharge test		
		Bending tests		
		Power factor test in relation to temperature and voltage		
		Heating cycle test		
		Impulse voltage tests		
		Surface resistivity of semi-conducting tapes		
2	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire: Multicore and multipair cables	1. Continuity of tinning	BS 7629-1:2015 (Amd 1 :2019)	Kelvin bridge, HV test apparatus,
		Thickness		
		Spark test		
		Clarity and durability		

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		Lay length		
		Voltage test on complete cable		
		Voltage withstands		
		Smoke emission		
		Ovality		
		Shrinkage of insulation		
		Bending characteristics		
		Resistance to impact		
		Shrinkage test on sheath		
		Drain wire resistance		
3	Electric and optical fibre cables	Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C	AS/NZS IEC 60332.3.24:2021	Flame retardance test apparatus
4	Electric and optical fibre cables	Determination of the halogen acid gas content	AS/NZS IEC 60754-1:2017 (Amd 1:2021)	Halogen gas evolution test apparatus
5	Electric and optical fibre cables	Determination of acidity (by pH measurement) and conductivity	AS/NZS IEC 60754-2:2017 (Amd 1:2021)	Halogen gas evolution test apparatus, pH & conductivity meter

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6	Electric and optical fibre cables	Measurement of smoke density of cables burning under defined conditions	AS/NZS IEC 61034.2:2017(Amd 1:2021)	smoke emission test apparatus
7	Electric cables of rated voltage higher than 1 kV up to and including 30 kV	Tests for electric cables under fire conditions – Circuit integrity	IEC 60331-4 Ed. 1.0 en:2024	Circuit integrity test apparatus with 80 kVac High Voltage test set

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