

Equipment	Link Box for 275kV Underground Cable System	
Specification reference	TTS-CB-275XLPE-CBACCESS TTS-CB-275XLPE-TEST	
	TNB Specification	Offer
Type	Epoxy-polyester / Polyester or better	Epoxy
Water immersion test	200mbar @ 40°C for 5 hrs @ cool down to within 10°C @ & heating cycles	Continuous Immersion Water level: 1 meter from the bottom of the Box. Duration: 4 h
DC Voltage test	25kV DC @ 5 minutes	Ok
Short circuit test	40kA @ 3 secs or equivalent energy	Ok
Impulse test	17.5kV phase-earth @ 35kV phase-phase @ IEC60230 @ 10 positive & 10 negative	Ok
Gloss (ISO 2813, 60°)	25±5%	Ok
Adhesion (ISO 2409)	GT = 0	Ok
Pencil hardness (ASTM D3363 – Staedtler Lumograph)	> 2H	Ok
Conical mandrel (ISO 6860)	No cracking at 10mm diameter	Ok
Direct impact (ASTM D2794 – 0.625 in. diameter ball)	> 40kg.cm	Ok
Reverse impact (ASTMD2794 – 0.625 , diameter ball)	>40kg.cm	Ok
Casing	Steel grade 304 @ thickness 2mm	Ok
Thickness of paint	80 - 100 µm	Ok
Door	Double layer @ Inner door bolted to main frame with non standard bolt @ Outer door hinged to main frame @ facilities for padlock of 12.5mm with the padlock	Ok
Non standard bolt	Tool to be supplied	Ok
Screws through the middle of the bushing	M10	M12
Bus bar	Copper tinned @ minimum cross section 50mm x 6mm (need to cater for 40kA @ 3sec)	50x12 mm Tinned Copper shall be used
IP rating	IP68	Ok

