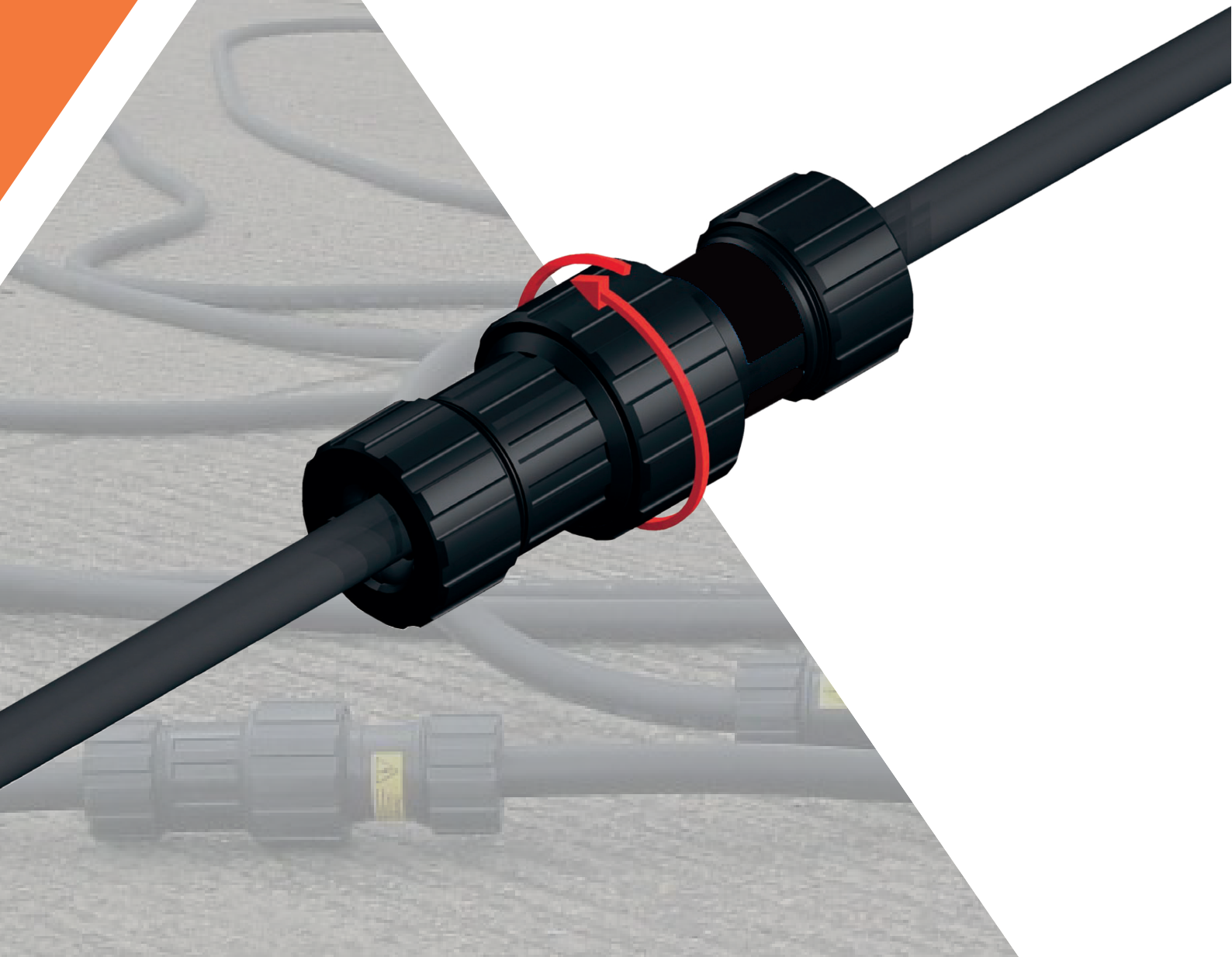




Lugit

Power Cable Joining System



Introduction

Lugit

Power Cable Joining System

LUGIT is a safe and efficient to make temporary connection/ extensions of single core power cables that are pre-terminated with copper lug terminals.

The main features are:

- Increase cable utilisation
- Standardise on cable stock
- Decrease cable purchase
- Reduce transportation of cables
- IP67 Protected when assembled
- 2 Lugit sizes available depending on Lug and cable dimensions
 - From 35mm² up to 120mm²
 - From 150mm² up to 300mm²
- Lug palm widths up to 45mm
- External Cable Ø from 14.5mm up to 37mm
- Assembles in approx. 2 minutes
- No special tools required
- Reusable and Field Installable
- No need for connectors or junction boxes

Consult Ten 47 if using different Lug sizes and/or cable sizes.

LUGIT 185/300



LUGIT 35/120



Locking / Release Key
REM-LK

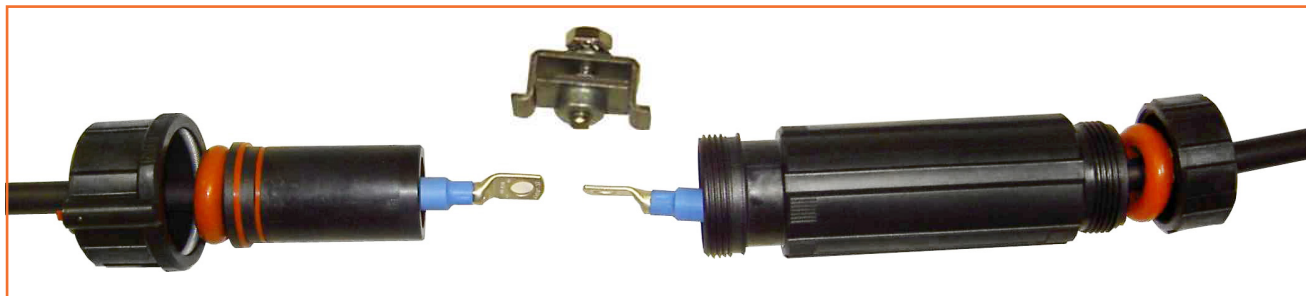
Parameters

Technical Parameter	Value
Operating Voltage	1000Vac
Max Current	660Amp (depending on cable c.s.a and application)
Voltage to Earth	max 2kv ac / 3kv dc
Flashover	min 6.8kv ac - 1 minute
Insulation Resistance	>5Mohm @500V dc
Voltage Drop	<5mV

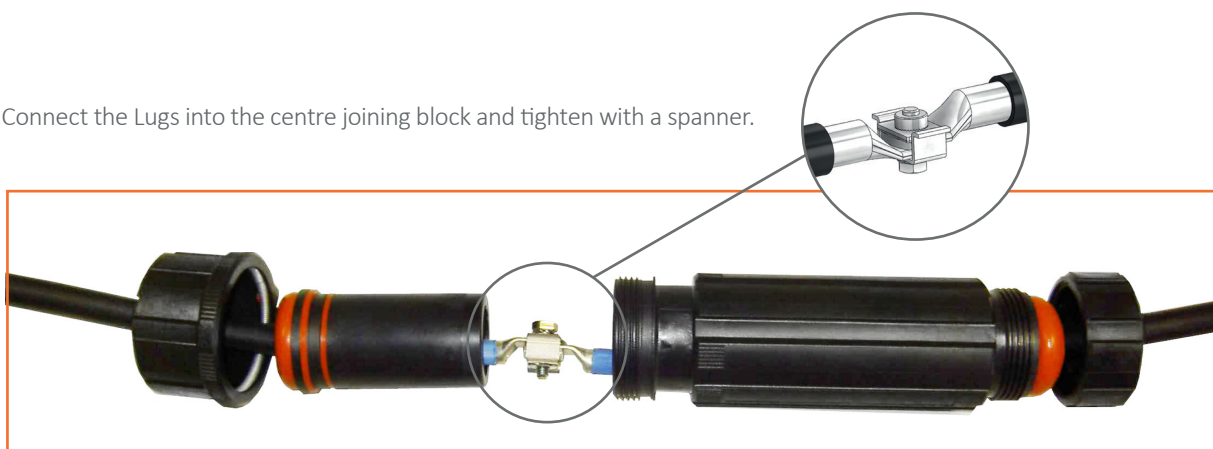
Assembly Instructions - LUGIT 35/120

*For 150, check cable ØD

- 1 Assemble the components over the 2 cables to be joined as shown.



- 2 Connect the Lugs into the centre joining block and tighten with a spanner.



- 3 Slide the Inner sleeve towards the joined cables and then slide the Lugit body over the inner sleeve. This keeps the joined cables positioned in the centre of the Lugit body. Position each of the sealing donuts and tighten the rear backnuts.

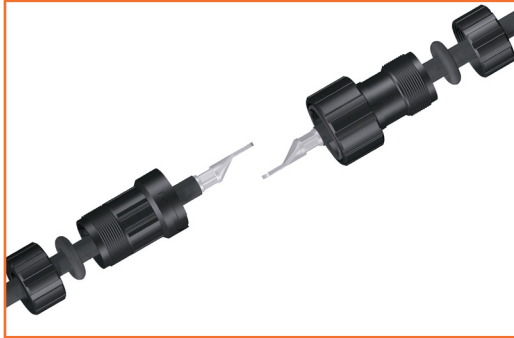
- 4 Using the remote locking/release key, turn the “red” locknut clockwise to lock and secure the Lugit. Turn anti-clockwise to unlock the Lugit to allow removal from the cables.



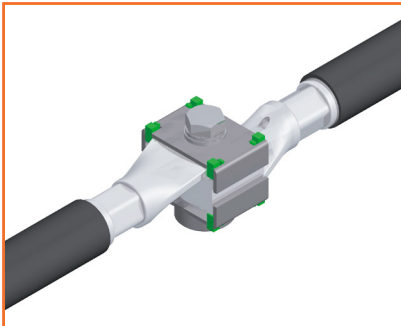
Assembly Instructions - LUGIT 185/300

*For 150, check cable ØD

- 1 Assemble the components over the lugs and onto the cables.



- 2 Connect the Lugs into the joining block and tighten with a spanner.



- 3 Ensure the Backshell Keys are correctly positioned to mate with each otherspanner.



- 4 Rotate the central locking ring until locks into the mated position, then tighten both backnuts.



- 5 Lock the Central Locking Ring using the remote locking / release key.



- 6 Fit coloured identification bands if required.

Part Numbers

Item	Part Number	
Lugit Unit	LUGIT 35/120	LUGIT 185/300
Green Band	LCB-GN	LCB-GN
Blue Band	LCB-BU	LCB-BU
Brown Band	LCB-BR	LCB-BR
Black Band	LCB-BK	LCB-BK
Grey Band	LCB-GY	LCB-GY
Locking / Release Key	REM-LK	REM-LK
Lug Palm Width	30mm max / 10mm or 12mm	45mm max / 12mm
External Cable Ø	14.5mm - 25mm	20mm - 37mm*

* For 20-25mm range, Reduction Sleeve LCR-20 is required at each end of Lugit.



Technical Characteristics

Thermal and Current Ratings

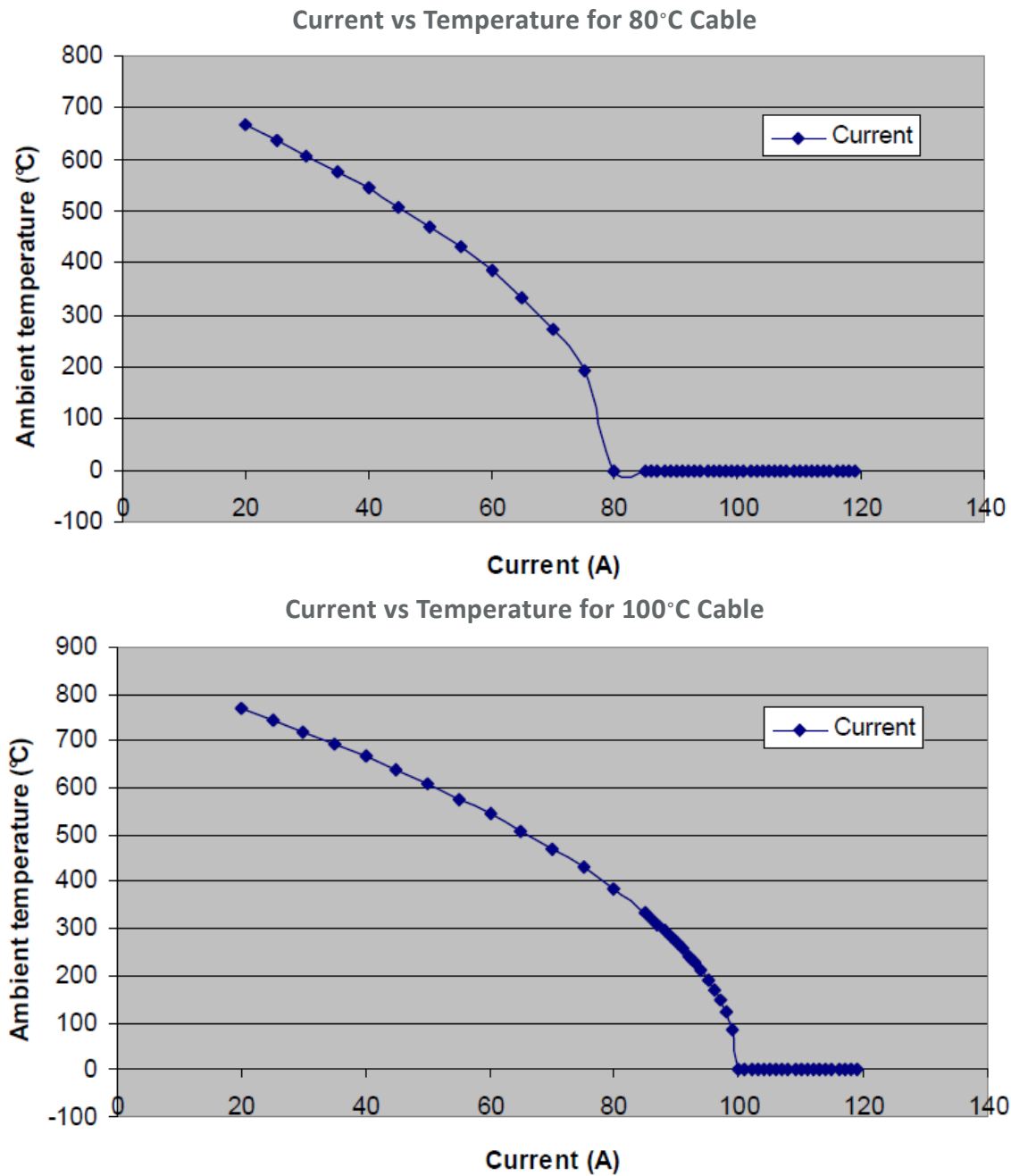
When lugs are correctly tightened to the recommended torque of 30 Nm, the combined terminal and lug system can safely operate up to the maximum rated temperature of the cable — typically 80°C.

The Lugit insulating material is rated up to 120°C, meaning the limiting factor is the cable’s temperature rating.

When the Lugit system is fully mated and the sealing nuts are correctly tightened over the cable, the assembly achieves an IP67 protection rating in accordance with EN 60529.

Under the same conditions, the system supports an operating voltage of up to 1000 VAC.

The following table shows maximum current values relative to ambient temperature, based on cable ratings of 80°C and 100°C.



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