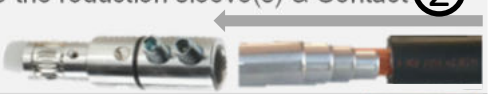
EPIC® POWERLOCK: Assembly instruction

LAPP

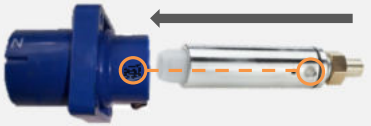
CRIMP AND SCREW CONNECTORS

STEP		CRIMP	SCREW
1	CABLE PREP	Slide a M40 SKINTOP® ① cable gland onto the cable	
2	CONDUCTOR PREP	Carefully strip the cable jacket  42mm	 33mm
3	INSERT CABLE…	…into the Contact 	…into the reduction sleeve(s) & Contact ② 
4	CONTACT PREP	Crimp ③ 	Tighten 10.5Nm with a 5mm Allen wrench 
5	INSERT CONTACT…	…into housing & align with retention pin holes	
6	INSERT & HAMMER RETENTION PIN	Hammer pin until flush, or just below the housing, and visible from both sides of the assembly ④	
7	SECURE CONNECTION	Screw the cable gland into the housing – tighten 13Nm	

ⓧ Also consult additional information on page 3

EPIC® POWERLOCK: Assembly instruction

M12 THREAD CONNECTORS

STEP			
1	INSERT CONTACT…	into housing & align with retention pin holes	
2	INSERT & HAMMER RETENTION PIN	Hammer pin until flush, or just below the housing, and visible from both sides of the assembly ④	
3	FIT THE LUG	After removing the M12 nut and washer, place the lug on the M12 thread.	
4	SECURE CONNECTION	Tighten the M12 washer and nut with 27.5 Nm - 31.4 Nm.	

ⓧ Also consult additional information on page 3

ADDITIONAL INFORMATION'S

1) Suitable SKINTOP® Cable glands for example:
   - SKINTOP® ST-M M40x1,5 Part. No. 53111050 (Ø 16 mm - 28 mm)
   - SKINTOP® STR-M M40x1,5 Part. No. 53111150 (Ø 9 mm – 23 mm)
   - SKINDICHT® EKU-M extension M40 → M50 Part. No. 52100305 + SKINTOP® ST-M M50x1,5 Part. No. 53111060 (Ø 27mm – 35 mm)

2) Reduction sleeves:
   - The sleeves fit inside each other to provide a gradual diameter reduction (120-95-70-50 mm²)
   - The flared sleeve end should be against the cable insulation, starting with the smallest sleeve and layering larger sizes on top, as needed.
   - For fine stranded cables, it is advised to use the maximum number of sleeves and increase the torque setting.

     This protects the individual cable strands from mechanical damage and allows greater compression of the conductor.

3) Contact Crimp:
   - The cable conductors should be visible through the inspection hole.
   - It is recommended to double crimp, however single crimps may be suitable for cables 120 mm^2 and smaller.
   - Each crimp should be centrally positioned in the crimp contact area (between inspection hole and contact end).
   - A proper connection is only guaranteed with proper Lapp certified tools.*

     Other tools must be qualified with the cable and contacts by the user.
   - Depending on the application, various crimp tool and die set combinations can be used.

     However, a hexagon crimp is recommended.

4) Insert of the retention Pin:
   - The retention pin should be placed in the housing tapered end first.
   - Use a press or soft hammer to secure the pin.
   - Only use the retention pin only once. Reusing the pin invalidates the IP67 rating.

*	
CRIMP TOOL C130	44420337
CRIMP DIE C35	44420338
CRIMP DIE C50	44420330
CRIMP DIE C70	44420331
CRIMP DIE C95	44420332
CRIMP DIE C120	44420333
CRIMP DIE C150	44420334
CRIMP DIE C185	44420335
CRIMP DIE C240	44420336
CRIPM DIE C240 NEW	44420340

! CAUTION: DO NOT CONNECT/DISCONNECT UNDER LOAD !