



2800144-A

Installation Instructions for DCC-LCF114/158-H01

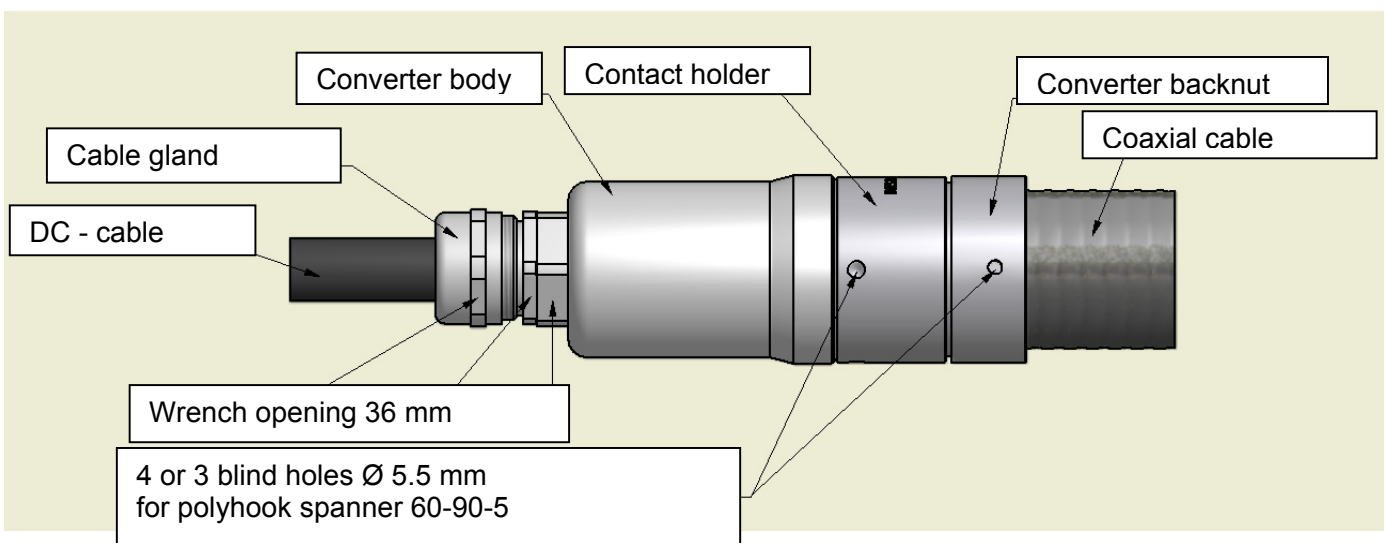
DC-Fit Converter for LCFS/UCF114-50 & LCF158-50

or cables with the same nominal dimensions (please refer to datasheet)

to DC cable N2XC2Y 2x16mm²

Please read this instruction, which has been written for qualified and experienced personnel, carefully before commencing work. Any liability or responsibility resulting from improper use or unsafe installation practice is disclaimed.

Please follow the valid accident prevention regulations. Make sure the circuit you are working on is powered off and is protected against unintended switching.



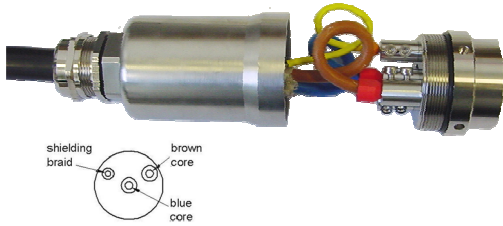
1. Preparation and connection of DC-cable



Slide converter body and cable gland over the DC cable. Strip back the outer jacket of DC cable approx. 15 cm. To prevent damage of shielding braid it is recommended to use a special stripping tool. Cut-off the shielding braid to a length of approx. 7.5 cm.



Remove the filling material between the single cores. Separate the shielding braid and twist it to form a common strand. Cover the twisted shielding braid with the insulating. Dismantle the stranded cores 18mm and fix a wire end ferrule with a hexagonal crimping. Provide the twisted shielding braid with a wire end ferrule, too.



Form the stranded cores and the twisted shielding braid to loops with a maximum diameter of 35 mm (e.g. by bending around a rod of approx. 10 mm diameter). Connect the blue stranded core to the center wire terminal and the brown stranded core as well as the twisted shielding braids to the outer wire terminals. Tighten the screws with a 3 mm Allen key (approx. 2 Nm).

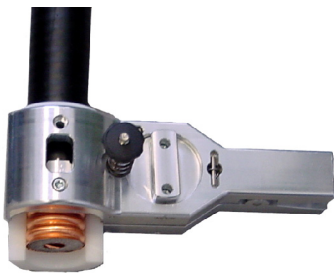


Align the contact holder with the converter body and screw them together by means of a spanner (wrench opening 36 mm) and a poly hook spanner (approx. 45 Nm). Keep the contact holder steady and turn the converter body only. Afterwards screw the cable gland firmly into the converter body (2 spanners wrench opening 36 mm; approx. 25 Nm). Then tighten the cable gland by closing the compression nut to achieve sealing and strain relief (approx. 15 Nm).

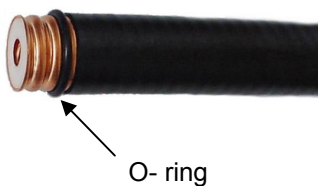
2. Preparation and connection of coaxial cable



Remove 50-60 mm of the outer jacket.



Prepare coaxial cable with trimming tool (e.g. RFS Universal Trimming tool TRIM-SET-L114-C02, resp. TRIM-SET-L158-C02. Use according to applicable installation instruction). For manual preparation cut the outer conductor on the top of the corrugation. Deburr the outer conductor.



Remove 25 – 28 mm of the jacket for a 1 1/4" cable respectively 28 – 30 mm for a 1 5/8" cable. Place the enclosed O-Ring to the 3rd corrugation valley and apply grease.

C-Ring



Apply grease to the inner surface of the converter backnut and push it over the cable and the O-Ring. To facilitate the subsequent assembly it is recommended to push the backnut back and forth and to turn it several times until it can be moved easily.
Afterwards place the C-Ring in the first corrugation valley.



Flare the outer conductor and intensively deburr the inner conductor. Push the converter backnut forward again. For manual preparation push the backnut forward first and flare the outer conductor by means of a screwdriver with rounded tip.



The flared surface must completely align with the cone of the backnut once it is pushed forward. If necessary the flaring has to be reworked with a screwdriver.
Push the foam away from the outer conductor if necessary, e.g. with a knife. And make sure the inner conductor has a visible chamfer.



Align and assemble coaxial cable with backnut to the contact holder. During this procedure the backnut has to be pushed towards the flared outer conductor. Screw the backnut to contact holder by keeping the contact holder steady and turning the backnut only by means of two poly hook spanners 60-90-5 (approx. 60 Nm).
Make sure that the C-Ring stays in position during this procedure.

For mechanical relief it is recommended to fix the converter after installation

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