

General information about Cu terminals



System Elpress

System Elpress consists of terminals and tools that are designed and tested together to give a certified crimping result. This ensures that users will feel confident when using our systems, and that a secure connection is achieved through the proper handling of our products. By using Elpress Cu-connection elements together with one of Elpress crimp systems one obtains a connection that has been tested according to the requirements of IEC 61238:1.



Cu terminals

Elpress copper connectors are made of pure copper 99.95%. We manufacture tube terminals type KR/KRF/KRD/KRT, through connectors type KS/KSF/KSD/KST for stranded conductors, IEC 60228 class 2, and multi-stranded conductors IEC 60228 class 5 such as C-sleeves primarily pre-splicing of Cu-lines and many customised products. For flexible and stranded Cu conductors, terminals of type KR/KRF and through connectors of type KS/KSF are used. Terminals type KRD/KRT and through connectors type KSD/KST are normally used for stranded Cu conductors from and including 500 mm². Terminals of type KR/KRF/KRD/KRT are used mainly in termination to bus bars and apparatus of copper, while through connectors, of type KS/KSF/KSD/KST, are used mainly in the splicing of copper conductors in cable assemblies. They can also be used for straight splicing of earth conductors. With a branching sleeve, type C, one splices and branches earth conductors, lightning conductor installations and the like.



UL-approved terminals

KR/KS, KRF/KSF, KRFS, KRFN, KRT/KST
UL approved in accordance with file no. E205350.

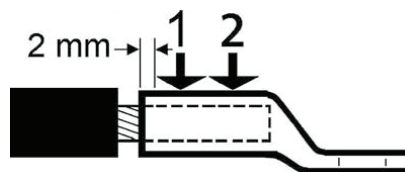


DNV-approved terminals

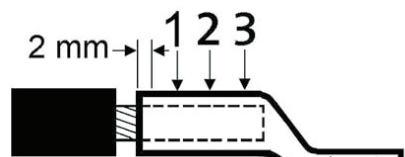
Elpress KR/KS, KRF/KSF and KRT/KST terminals meet DNV's rules for classification of ships and Det Norske Veritas' Offshore Standards. The terminals are approved for installations on ships and mobile "offshore" units.

Number of crimps

Normally one crimp is required up to and including 150 mm² and two or three crimps for larger areas. Note, however, that another number of crimps may be needed in some cases, see tables for tool dies. If possible, crimps should be placed next to each other with a couple of mm spacing between each one. Overlap is sometimes inevitable.



Crimp sequence for two crimps.



Crimp sequence for three crimps.

Marking of Cu terminals

Elpress marking system for copper terminals shows logotype, cable area and type number for hexagonal die. This system allows checks that the correct tools have been used when contact crimping because the die number automatically becomes embossed during the contact crimping.



Marking tube terminals

25 (on neck)
Type No. for hexagonal die (Elpress logo) 150 12 F (on the palm)
150 = Cu conductor in mm²
12 = Hole size
F = KRF



Marking through connectors

Elpress Logo
Type No. for hexagonal die
16 F (possible screened conductor area and earthing sign)
16 = Cu conductor in mm²
F = KSF



Marking C-sleeves (example C70-95)

Area marking (side 1)
25-120 / 140-190
min - max (mm² per conductor) / min - max (total mm² in the sleeve)
Elpress logo, Die number (side 2)
BCx, "x" corresponds to die number