





TECHNICAL INFORMATION PRODUCT CERTIFICATE

20080530 Per Fällström Elpress AB

Manufacturer: **ELPRESS AB**

P O Box 186 S-872 24 Kramfors, Sweden

Trademark: **ELPRESS**

Product description: A system of copper connectors and tools for

crimping of flexible power cables

KRF/KSF copper terminals and through connectors Product type:

together with DUAL crimping tool system

For use of 10mm² up to 300mm² flexible copper Working range:

> conductors according to IEC60228 class 5 and 6 (Can also be used for stranded class 2 conductors)

Product tests: Tested and approved according to standard

IEC61238-1, Heat cycling and short circuit test

SEN 245010, Tensile strength test

DIN V 40046 Teil 37, Corrosion resistance test

EN 50155. Vibration and shock test

Marking: Terminals are marked with Elpress logotype and

> ID-no. for dies, nominal conductor area, bolt size Tools are marked with Elpress logotype and

ID-no. for dies

Products are manufactured in accordance with **Quality Assurance:**

> procedures established in Elpress ISO 9001:2000 Quality Assurance System, certified by BSI.

Production and manufacturing are in accordance Eco Management:

with Elpress ISO14001:2004 Eco Management

System, certified by SP.

Page 1/2







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Summary of most relevant product test of crimped connections made with ELPRESS KRF/KSF copper terminals and through connectors together with ELPRESS Dual tool system.

Electrical properties.

Test procedures according to IEC61238-1 "Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um=36 kV) Test methods and requirements."

Test ID No 1464 dated 20010508, flexible copper conductor class 5, nominal size 50 mm², KSF50, DV1300

Test ID No 1466 dated 20010516, flexible copper conductor class 5, nominal size 120 mm², KSF120, DV1300.

Test ID No 1479 dated 20010910, flexible copper conductor class 5, nominal size 35 mm², KSF35, DV1300.

Test ID No 1480 dated 20011011, flexible copper conductor class 5, nominal size 95 mm², KSF95, DV1300.

Test ID No 1547 dated 20030120, flexible copper conductor class 5, nominal size 25 mm², KSF25, DV1300.

Test ID No 1570 dated 20030509, flexible copper conductor class 5, nominal size 240 mm², KSF240, DV1300.

Test ID No 1779 dated 20080530, flexible copper conductor class 5, nominal size 10 mm², KS10, DV1300.

Mechanical properties.

Test procedures, tensile strength part, according to SEN 245010 "Crimped joints"

Test ID No 1515 dated 20020523, flexible copper conductor class 5, nominal sizes10mm² up to 300mm², KR10, KRF16, KRF25, KRF35, KRF50, KRF70, KRF95, KRF120, KRF150, KRF185, KRF240, KRF300, DV1300.

Chemical environment properties.

Test procedures according to DIN V 40046 Teil 37 "Basic environmental testing procedures, test with Hydrogen Sulphide H2S for electrical contacts and connections"

Test ID No 1500 dated 20020302, flexible copper conductor class 5, nominal sizes 35mm² and 120 mm² KRF35, KRF120, DV1300

Vibration environment properties.

Test procedures, shock and vibration, according to EN 50155 (IEC61373:1999)

"Shock and vibration requirements for rolling stock equipment"

Test ID No 1385 dated 20000324, flexible copper conductor class 5, nominal sizes 16mm², 50mm² and 70mm² KRF16, KRF50, KRF70 and DV1300