



**COPPER
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PRODUCTS CATALOGUE

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1. SBO/KBO - ROUND STRANDED COPPER CABLES



Construction and Application:

These cables are manufactured out of wires that have a stronger diameters than 0,10 mm. They can be used for all applications where you need more mechanical stability than higher flexibility.

Technical Data:

Material: 0,15 mm - 0,85 mm annealed Cu ETP1 wires *uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | | Weight kg/100m |
|---------------------|-------------------|----------------------------------|---------------------------|------------------|-------------------|
| | | | wire dia. mm | outer dia. mm | |
| SBO-0060 | KBO-0060 | 6 | acc. to customers' wishes | 4 | 6 |
| SBO-0100 | KBO-0100 | 10 | | 4,5 | 10 |
| SBO-0160 | KBO-0160 | 16 | | 5,8 | 16 |
| SBO-0250 | KBO-0250 | 25 | | 7,5 | 25 |
| SBO-0350 | KBO-0350 | 35 | | 9 | 35 |
| SBO-0500 | KBO-0500 | 50 | | 11 | 50 |
| SBO-0700 | KBO-0700 | 70 | | 13 | 70 |
| SBO-0950 | KBO-0950 | 95 | | 15 | 95 |
| SBO-1200 | KBO-1200 | 120 | | 17 | 120 |
| SBO-1500 | KBO-1500 | 150 | | 19 | 150 |
| SBO-1850 | KBO-1850 | 185 | | 21 | 185 |
| SBO-2400 | KBO-2400 | 240 | | 22,5 | 240 |
| SBO-3000 | KBO-3000 | 300 | | 25,5 | 300 |
| SBO-4000 | KBO-4000 | 400 | | 33,5 | 400 |
| SBO-5000 | KBO-5000 | 500 | | 38 | 500 |

2. SDYO/KDYO - HIGHLY FLEXIBLE ROUND STRANDED COPPER CABLES

Construction and Application:

These cables are manufactured from 0,05 / 0,07 or 0,10 mm diameter Cu-ETP1 wires according to the needed cross-section. It is used 1+6 (1-300 mm²), 5+11 or 1+6+12 (301 mm² + up) ropes construction that are stranded at special machines according to the needed conductor cross-section to provide the best flexibility and current capacity.



With providing higher flexibility caused by using thin wires and the bigger cross-section with small dimensions because of the construction system, they are well suited into small places, which also require movements and higher current capacity as well.

Technical Data:

Material: annealed Cu ETP1 wires, uncoated or tinned.

- wire 0,05 mm ----- 1 mm²
- wire 0,07 mm ----- 1,5 mm² - 16 mm²
- wire 0,10 mm ----- 25 mm² - 1000 mm²

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | | Weight kg/100m |
|---------------------|-------------------|----------------------------------|------------------------------|------------------|-------------------|
| | | | diameter and no. of wires | outer dia. mm | |
| SDYO-0010 | KDYO-0010 | 1 | 512 X 0,05 | 1,5 | 1 |
| SDYO-0015 | KDYO-0015 | 1,5 | 392 X 0,07 | 1,9 | 1,7 |
| SDYO-0025 | KDYO-0025 | 2,5 | 651 X 0,07 | 2,4 | 2,7 |
| SDYO-0040 | KDYO-0040 | 4 | 1036 X 0,07 | 3,1 | 4 |
| SDYO-0060 | KDYO-0060 | 6 | 1561 X 0,07 | 4 | 6 |
| SDYO-0080 | KDYO-0080 | 8 | 2100 X 0,07 | 4,2 | 8 |
| SDYO-0100 | KDYO-0100 | 10 | 2604 X 0,07 | 4,5 | 10 |
| SDYO-0160 | KDYO-0160 | 16 | 4200 X 0,07 | 5,7 | 16 |
| SDYO-0250 | KDYO-0250 | 25 | 3192 X 0,10 | 7,5 | 25 |
| SDYO-0350 | KDYO-0350 | 35 | 4480 X 0,10 | 9 | 35 |
| SDYO-0500 | KDYO-0500 | 50 | 6383 X 0,10 | 11 | 50 |
| SDYO-0700 | KDYO-0700 | 70 | 8918 X 0,10 | 13 | 70 |
| SDYO-0950 | KDYO-0950 | 95 | 12100 X 0,10 | 15 | 100 |
| SDYO-1200 | KDYO-1200 | 120 | 15300 X 0,10 | 17 | 127 |
| SDYO-1500 | KDYO-1500 | 150 | 19152 X 0,10 | 19 | 158 |
| SDYO-1850 | KDYO-1850 | 185 | 23580 X 0,10 | 21 | 194 |
| SDYO-2400 | KDYO-2400 | 240 | 30600 X 0,10 | 23,5 | 247 |
| SDYO-3000 | KDYO-3000 | 300 | 38200 X 0,10 | 27,5 | 310 |
| SDYO-4000 | KDYO-4000 | 400 | 50960 X 0,10 | 33 | 410 |
| SDYO-5000 | - | 500 | 64288 X 0,10 | 38 | 508 |
| SDYO-6000 | - | 600 | 76832 X 0,10 | 43 | 600 |
| SDYO-7500 | - | 750 | 95648 X 0,10 | 46 | 750 |
| SDYO-8500 | - | 850 | 108976 X 0,10 | 48 | 850 |
| SDYO-1000 | - | 1000 | 128576 X 0,10 | 54 | 1010 |

3. STYO/KTYO - HIGHLY FLEXIBLE ROUND BRAIDED COPPER CABLES

Construction and Application:

These braids are manufactured from annealed or tinned Cu-ETP 1 wires according to DIN EN 13602. The wires are bunched together after the needed cross-section is calculated. Unlike the flexible braided tapes, bunches of wires are braided with machines that have 8/12 carries so that they have a round shape.



Technical Data:

Material: 0,05 mm - 0,16 mm annealed Cu ETP1 wires uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | | Weight kg/100m |
|---------------------|-------------------|----------------------------------|------------------------------|------------------|-------------------|
| | | | diameter and no. of wires | outer dia. mm | |
| STYO-0035-05 | KTYO-0035-05 | 0,35 | 8 X 23 - 0,05 | 0,95 | 0,35 |
| STYO-0050-05 | KTYO-0050-05 | 0,5 | 8 X 32 - 0,05 | 1,1 | 0,5 |
| STYO-0075-05 | KTYO-0075-05 | 0,75 | 8 X 48 - 0,05 | 1,35 | 0,75 |
| STYO-0100-05 | KTYO-0100-05 | 1 | 8 X 64 - 0,05 | 1,6 | 1 |
| STYO-0150-07 | KTYO-0150-07 | 1,5 | 12 X 33 - 0,07 | 1,9 | 1,5 |
| STYO-0200-07 | KTYO-0200-07 | 2 | 12 X 44 - 0,07 | 2,2 | 2 |
| STYO-0250-07 | KTYO-0250-07 | 2,5 | 12 X 54 - 0,07 | 2,4 | 2,5 |
| STYO-0300-07 | KTYO-0300-07 | 3 | 12 X 65 - 0,07 | 2,7 | 3 |
| STYO-0400-07 | KTYO-0400-07 | 4 | 12 X 86 - 0,07 | 3,1 | 4 |
| STYO-0600-07 | KTYO-0600-07 | 6 | 12 X 130 - 0,07 | 4 | 6 |
| STYO-0800-07 | KTYO-0800-07 | 8 | 12 X 174 - 0,07 | 4,5 | 8 |
| STYO-1000-07 | KTYO-1000-07 | 10 | 12 X 217 - 0,07 | 5 | 10 |
| STYO-1200-07 | KTYO-1200-07 | 12 | 12 X 260 - 0,07 | 5,5 | 12 |
| STYO-1600-10 | KTYO-1600-10 | 16 | 12 X 170 - 0,10 | 6,3 | 16 |
| STYO-2100-10 | KTYO-2100-10 | 21 | 12 X 223 - 0,10 | 7,2 | 21 |
| STYO-2500-10 | KTYO-2500-10 | 25 | 12 X 266 - 0,10 | 7,9 | 25 |
| STYO-3500-16 | KTYO-3500-16 | 35 | 12 X 145 - 0,16 | 9,7 | 35 |
| STYO-5000-16 | KTYO-5000-16 | 50 | 12 X 207 - 0,16 | 12 | 50 |
| STYO-7000-16 | KTYO-7000-16 | 70 | 12 X 290 - 0,16 | 14,5 | 70 |
| STYO-9500-16 | KTYO-9500-16 | 95 | 12 X 394 - 0,16 | 17 | 95 |

4. STO/KTO – TUBULAR BRAIDS FOR COVERING AND SHIELDING

Construction and Application:

We produce tubular braids for covering your conductors and shielding your cables against interferences to realize a safe data transfer. Our wide range of diameter choices provides you a simple coordination by applying on your items. We can also produce special designs in diameters according to your wishes.



Technical Data:

Material: 0,10 - 0,30 mm annealed Cu ETP1 wires *uncoated or tinned.

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | |
|---------------------|-------------------|----------------------------------|------------------------------|---------------------------|
| | | | diameter and no. of wires | outer dia.(mm) min-max |
| STO-0025-10 | KTO-0025-10 | 0,25 | 16 X 2 - 0,10 | 0,7 - 3 |
| STO-0038-10 | KTO-0038-10 | 0,38 | 16 X 3 - 0,10 | 0,8 - 3 |
| STO-0050-10 | KTO-0050-10 | 0,50 | 16 X 4 - 0,10 | 1,0 - 4 |
| STO-0088-10 | KTO-0088-10 | 0,88 | 16 X 7 - 0,10 | 1,5 - 6 |
| STO-0132-10 | KTO-0132-10 | 1,32 | 24 X 7 - 0,10 | 2,8 - 8 |
| STO-0198-10 | KTO-0198-10 | 1,98 | 36 X 7 - 0,10 | 4,0 - 12 |
| STO-0310-10 | KTO-0310-10 | 3,10 | 36 X 11 - 0,10 | 6,0 - 14 |
| STO-0530-20 | KTO-0530-20 | 5,30 | 24 X 7 - 0,20 | 5,0 - 10 |
| STO-0680-20 | KTO-0680-20 | 6,80 | 24 X 9 - 0,20 | 6,5 - 14 |
| STO-0790-20 | KTO-0790-20 | 7,90 | 36 X 7 - 0,20 | 8,5 - 25 |
| STO-1020-20 | KTO-1020-20 | 10,20 | 36 X 9 - 0,20 | 10,0 - 27 |
| STO-1245-20 | KTO-1245-20 | 12,45 | 36 X 11 - 0,20 | 12,0 - 29 |
| STO-1530-30 | KTO-1530-30 | 15,30 | 24 X 9 - 0,30 | 14,0 - 50 |
| STO-3580-30 | KTO-3580-30 | 35,80 | 36 X 14 - 0,30 | 25,0 - 70 |
| STO-5110-30 | KTO-5110-30 | 51,10 | 48 X 15 - 0,30 | 25,0 - 90 |

5. SFYO/KFYO - ROUND STRANDED CABLES WITH TUBULAR BRAID

Construction and Application:

These cables are a combination of an inner stranded cable that has an outer tubular braid to provide a higher mechanical stability. The overall tubular braid keeps the cable together against a probable decay caused by serial movements. The overall tubular braid provides also a higher cross-section than the nominal value.



Technical Data:

Material: 0,05 - 0,07 - 0,1mm annealed Cu ETP1 wires *uncoated.

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | Cross sec. mm ² | Construction | | diameter of cable mm | Weight kg/100m |
|---------------------|----------------------------------|----------------------------|------------|----------------------------|-------------------|
| | | number of wires x diameter | | | |
| | | ro. stranded | braided | | |
| SFYO-0010 | 1 | 266 x 0,05 | 64 x 0,10 | 1,5 | 1,00 |
| SFYO-0015 | 1,5 | 525 x 0,05 | 64 x 0,10 | 2 | 1,60 |
| SFYO-0025 | 2,5 | 651 x 0,007 | 64 x 0,10 | 2,9 | 2,90 |
| SFYO-0040 | 4 | 1036 x 0,007 | 64 x 0,10 | 3,6 | 4,60 |
| SFYO-0060 | 6 | 1575 x 0,007 | 96 x 0,10 | 4,5 | 6,90 |
| SFYO-0080 | 8 | 2058 x 0,007 | 96 x 0,10 | 5 | 9,40 |
| SFYO-0100 | 10 | 2562 x 0,007 | 128 x 0,10 | 5,5 | 12,0 |
| SFYO-0160 | 16 | 4116 x 0,007 | 192 x 0,10 | 7 | 19,50 |
| SFYO-0250 | 25 | 3234 x 0,10 | 192 x 0,10 | 8,9 | 27,50 |
| SFYO-0350 | 35 | 4508 x 0,10 | 240 x 0,10 | 10,5 | 41,0 |
| SFYO-0500 | 50 | 6468 x 0,10 | 360 x 0,10 | 12,5 | 58,0 |
| SFYO-0700 | 70 | 8967 x 0,10 | 360 x 0,10 | 14,7 | 81,0 |
| SFYO-0950 | 95 | 12201 x 0,10 | 360 x 0,10 | 16,5 | 108,0 |
| SFYO-1200 | 120 | 15435 x 0,10 | 360 x 0,10 | 19 | 134,0 |

6. SO/KO - FLEXIBLE FLAT BRAIDED COPPER TAPES

Construction and Application:

The principal difference compared to highly flexible ones is the stronger wires (0,16mm or 0,20mm) that are used.

They are used where you do not need special flexibility as ground braiding tapes for batteries. Our ready assembled earthing tapes are also manufactured from these tapes. Bigger cross sections are available on request.



Technical Data:

Material: 0,16 - 0,20mm annealed Cu ETP1 wires uncoated or tinned

- Noninsulated or PVC insulated

Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | | | Weight kg/100m |
|---------------------|-------------------|----------------------------------|-----------------|--------------------|-----------------------|-------------------|
| | | | wire dia. mm | number of wires | width thickness mm | |
| SO-0100-16 | KO-0100-16 | 10 | 0,16 | 24 X 13 | 13 x 1,2 | 10 |
| SO-0140-16 | KO-0140-16 | 14 | 0,16 | 24 X 29 | 18 x 1,5 | 14 |
| SO-0160-16 | KO-0160-16 | 16 | 0,16 | 24 X 34 | 20 x 1,6 | 16 |
| SO-0210-16 | KO-0210-16 | 21 | 0,16 | 24 X 44 | 22 x 2 | 21 |
| SO-0250-16 | KO-0250-16 | 25 | 0,16 | 24 X 52 | 22 x 2,5 | 25 |
| SO-0350-16 | KO-0350-16 | 35 | 0,16 | 32 X 54 | 24 x 3 | 35 |
| SO-0500-16 | KO-0500-16 | 50 | 0,16 | 32 X 78 | 30 x 3,4 | 50 |
| SO-0700-16 | KO-0700-16 | 70 | 0,16 | 48 X 72 | 35 x 4,5 | 70 |
| SO-0100-20 | KO-0100-20 | 10 | 0,20 | 32 X 10 | 14 x 1,3 | 10 |
| SO-0140-20 | KO-0140-20 | 14 | 0,20 | 32 X 14 | 15 x 1,6 | 14 |
| SO-0160-20 | KO-0160-20 | 16 | 0,20 | 32 X 16 | 17 x 1,6 | 16 |
| SO-0210-20 | KO-0210-20 | 21 | 0,20 | 32 X 21 | 19 x 2,1 | 21 |
| SO-0250-20 | KO-0250-20 | 25 | 0,20 | 32 X 25 | 20 x 2,6 | 25 |
| SO-0350-20 | KO-0350-20 | 35 | 0,20 | 32 X 35 | 24 x 3 | 35 |
| SO-0500-20 | KO-0500-20 | 50 | 0,20 | 48 X 33 | 33 x 3,2 | 50 |
| SO-0700-20 | KO-0700-20 | 70 | 0,20 | 48 X 47 | 35 x 4,5 | 70 |

7. SFO/KFO - HIGHLY FLEXIBLE BRAIDED COPPER TAPES

Construction and Application:

These tapes are manufactured from annealed or tinned Cu-ETP1 wires (from 0,05mm to 0,10mm diameter) according to DIN EN 13602 as flat rolled tubes.

It is also possible to produce these braids according to your wishes. These braids are mainly used as highly flexible components for earthing, lightning protection as well as parts to manufacture highly flexible current connectors.



Technical Data:

Material: 0,05 - 0,07 – 0,1mm annealed Cu ETP1 wires uncoated or tinned

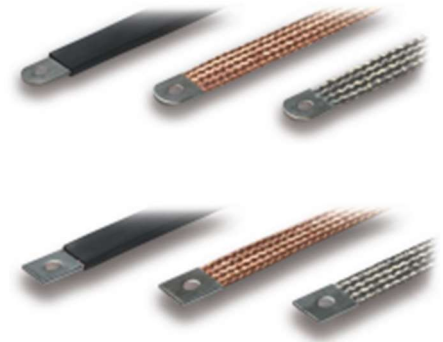
Delivery: plastic reels, in rings, on spools or wooden drums.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | Construction | | | Weight kg/100m |
|---------------------|-------------------|----------------------------------|-----------------|--------------------|-----------------------|-------------------|
| | | | wire dia. mm | number of wires | width thickness mm | |
| SFO-0010-05 | KFO-0010-05 | 1 | 0,05 | 16 x 32 | 3,2 x 0,7 | 1,50 |
| SFO-0015-07 | KFO-0015-07 | 1,5 | 0,07 | 16 x 25 | 4 x 1 | 1,70 |
| SFO-0020-07 | KFO-0020-07 | 2 | 0,07 | 16 x 33 | 5 x 0,8 | 2,20 |
| SFO-0025-07 | KFO-0025-07 | 2,5 | 0,07 | 24 x 27 | 5,8 x 1 | 2,70 |
| SFO-0040-07 | KFO-0040-07 | 4 | 0,07 | 24 x 43 | 8,2 x 1 | 4,25 |
| SFO-0060-07 | KFO-0060-07 | 6 | 0,07 | 24 x 66 | 10 x 1 | 6 |
| SFO-0080-07 | KFO-0080-07 | 8 | 0,07 | 24 x 88 | 12 x 1,1 | 8 |
| SFO-0100-07 | KFO-0100-07 | 10 | 0,07 | 24 x 109 | 13,8 x 1,3 | 10 |
| SFO-0160-10 | KFO-0160-10 | 16 | 0,10 | 24 x 85 | 18 x 2 | 16 |
| SFO-0250-10 | KFO-0250-10 | 25 | 0,10 | 24 x 135 | 20 x 2,4 | 25 |
| SFO-0350-10 | KFO-0350-10 | 35 | 0,10 | 32 x 139 | 26 x 2,3 | 35 |
| SFO-0500-10 | KFO-0500-10 | 50 | 0,10 | 48 x 133 | 33 x 2,8 | 50 |
| SFO-0700-10 | KFO-0700-10 | 70 | 0,10 | 48 x 186 | 38 x 3 | 70 |
| SFO-0950-10 | KFO-0950-10 | 95 | 0,10 | 48 x 256 | 45 x 4,5 | 95 |
| SFO-1200-10 | KFO-1200-10 | 120 | 0,10 | 48 x 320 | 50 x 4,5 | 120 |
| SFO-1400-10 | KFO-1400-10 | 140 | 0,10 | 48 x 373 | 55 x 5,3 | 140 |
| SFO-1680-10 | KFO-1680-10 | 168 | 0,10 | 48 x 446 | 70 x 4,5 | 168 |

8. ST/KT - EARTHING TAPES WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. The braided tapes and tubes are of same analysis and conductivity. No additives are used at the process of pressing the contact areas. Applicable as earthing tape where needed and everywhere as component for current transfer.



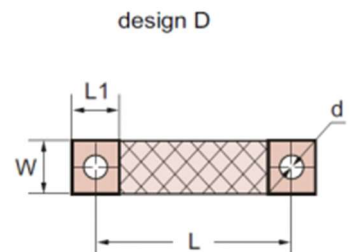
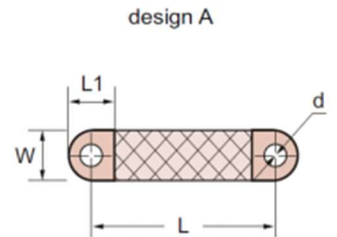
Technical Data:

Material: 0,07 - 0,20 mm annealed Cu-ETP wires , uncoated or tinned.

- Non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)

Contact Areas: Seamless Cu-ETP tube ; uncoated - tinned or silver coated, solderless pressed.

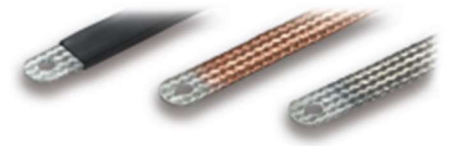
| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | Current- load ampere |
|---------------------|-------------------|----------------------------------|------------|----------|---------------------------|---------------------------|----------------------------|
| | | | W mm | L1 mm | L mm | d mm | |
| ST-004 | KT-004 | 4 | 8 | 12 | acc. to customers' wishes | acc. to customers' wishes | 15 |
| ST-006 | KT-006 | 6 | 10 | 16 | | | 40 |
| ST-008 | KT-008 | 8 | 12 | 16 | | | 60 |
| ST-010 | KT-010 | 10 | 14 | 18 | | | 75 |
| ST-014 | KT-014 | 14 | 16 | 18 | | | 95 |
| ST-016 | KT-016 | 16 | 16 | 20 | | | 120 |
| ST-021 | KT-021 | 21 | 20 | 20 | | | 135 |
| ST-025 | KT-025 | 25 | 20 | 23 | | | 150 |
| ST-035 | KT-035 | 35 | 25 | 25 | | | 195 |
| ST-050 | KT-050 | 50 | 30 | 30 | | | 250 |
| ST-070 | KT-070 | 70 | 35 | 35 | | | 290 |
| ST-095 | KT-095 | 95 | 40 | 40 | | | 330 |
| ST-120 | KT-120 | 120 | 40 | 40 | 420 | | |



9. STL/KTL – EARTHING TAPES WITH SOLDER SOLIDIFIED CONTACT AREAS

Construction and Application:

Manufactured from highly flexible tapes that are braided from annealed Cu-ETP wires, and contact areas, which are pressed to shape after solidified by immersing into alloyed lead-free solder. Applicable as earthing tape and component for current transfer.



Technical Data:

Material: 0,07 - 0,20 mm annealed Cu-ETP wires , uncoated or tinned.

Contact Areas: a metal alloyed leadfree solidified and pressed.

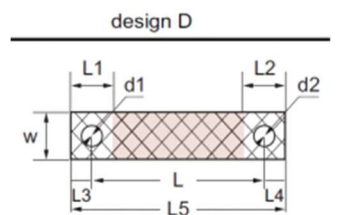
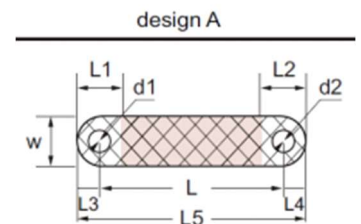
Insulation: non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)



* The specifications, designs and dimensions given below are changeable according to customers' wishes.

* All information about current load are not binding , only approximate values.

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | Current- load ampere |
|---------------------|-------------------|----------------------------------|------------|----------|---------------------------|---------------------------|----------------------------|
| | | | W mm | L1 mm | L mm | d mm | |
| STL-004 | KTL-004 | 4 | 8 | 12 | acc. to customers' wishes | acc. to customers' wishes | 15 |
| STL-006 | KTL-006 | 6 | 10 | 16 | | | 40 |
| STL-008 | KTL-008 | 8 | 12 | 16 | | | 60 |
| STL-010 | KTL-010 | 10 | 14 | 18 | | | 75 |
| STL-014 | KTL-014 | 14 | 16 | 18 | | | 95 |
| STL-016 | KTL-016 | 16 | 16 | 20 | | | 120 |
| STL-021 | KTL-021 | 21 | 20 | 20 | | | 135 |
| STL-025 | KTL-025 | 25 | 20 | 23 | | | 150 |
| STL-035 | KTL-035 | 35 | 25 | 25 | | | 195 |
| STL-050 | KTL-050 | 50 | 30 | 30 | | | 250 |
| STL-070 | KTL-070 | 70 | 35 | 35 | | | 290 |
| STL-095 | KTL-095 | 95 | 40 | 40 | | | 330 |
| STL-120 | KTL-120 | 120 | 40 | 40 | 420 | | |



10.IST/IKT – INSULATED SHUNTS WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. The braided tapes and tubes are of same analysis and conductivity.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.

Technical Data:

Material: 0,20 mm annealed Cu-ETP wires , uncoated or tinned.

- Insulation - special vinyl compound

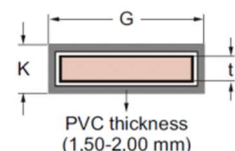
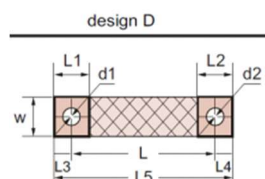
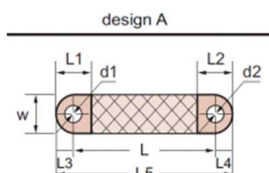
Contact Areas: Seamless Cu-ETP tube ; tinned coated, solderless pressed.

Max. working temperature: 105°C self-extinguishable: UL 94 VO dielectric strength: 20 kV/mm

Max. working voltage: 1000 V AC - 1500 V DC



| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | | | | | | | | | | PACKING min. pcs |
|---------------------|-------------------|----------------------------------|------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|----------|----|------------------------|
| | | | L mm | L1 mm | L2 mm | L3 mm | L4 mm | L5 mm | w mm | t mm | K mm | G mm | d1 mm | d2 mm | | |
| IST 025-230-10-8 | IKT 025-230-10-8 | 25 | 230 | 25 | 25 | 11 | 7 | 248 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 | |
| IST 025-330-10-8 | IKT 025-330-10-8 | 25 | 330 | 25 | 25 | 11 | 7 | 348 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 | |
| IST 025-430-10-8 | IKT 025-430-10-8 | 25 | 430 | 25 | 25 | 11 | 7 | 448 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 | |
| IST 025-530-10-8 | IKT 025-530-10-8 | 25 | 530 | 25 | 25 | 11 | 7 | 548 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 | |
| IST 025-630-10-8 | IKT 025-630-10-8 | 25 | 630 | 25 | 25 | 11 | 7 | 648 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 | |
| IST 035-230-10-8 | IKT 035-230-10-8 | 35 | 230 | 25 | 25 | 11 | 7 | 248 | 20 | 4,2 | 8 | 24 | 10,5 | 8,5 | 10 | |
| IST 035-330-10-8 | IKT 035-330-10-8 | 35 | 330 | 25 | 25 | 11 | 7 | 348 | 20 | 4,2 | 8 | 24 | 10,5 | 8,5 | 10 | |
| IST 035-430-10-8 | IKT 035-430-10-8 | 35 | 430 | 25 | 25 | 11 | 7 | 448 | 20 | 4,2 | 8 | 24 | 10,5 | 8,5 | 10 | |
| IST 035-530-10-8 | IKT 035-530-10-8 | 35 | 530 | 25 | 25 | 11 | 7 | 548 | 20 | 4,2 | 8 | 24 | 10,5 | 8,5 | 10 | |
| IST 035-630-10-8 | IKT 035-630-10-8 | 35 | 630 | 25 | 25 | 11 | 7 | 648 | 20 | 4,2 | 8 | 24 | 10,5 | 8,5 | 10 | |
| IST 050-230-10-8 | IKT 050-230-10-8 | 50 | 230 | 25 | 25 | 11 | 7 | 248 | 20 | 5 | 9 | 24 | 10,5 | 8,5 | 10 | |
| IST 050-330-10-8 | IKT 050-330-10-8 | 50 | 330 | 25 | 25 | 11 | 7 | 348 | 20 | 5 | 9 | 24 | 10,5 | 8,5 | 10 | |
| IST 050-430-10-8 | IKT 050-430-10-8 | 50 | 430 | 25 | 25 | 11 | 7 | 448 | 20 | 5 | 9 | 24 | 10,5 | 8,5 | 10 | |
| IST 050-530-10-8 | IKT 050-530-10-8 | 50 | 530 | 25 | 25 | 11 | 7 | 548 | 20 | 5 | 9 | 24 | 10,5 | 8,5 | 10 | |
| IST 050-630-10-8 | IKT 050-630-10-8 | 50 | 630 | 25 | 25 | 11 | 7 | 648 | 20 | 5 | 9 | 24 | 10,5 | 8,5 | 10 | |
| IST 070-230-10-10 | IKT 070-230-10-10 | 70 | 230 | 25 | 25 | 11 | 11 | 252 | 20 | 6,8 | 11 | 24 | 10,5 | 10,5 | 10 | |
| IST 070-330-10-10 | IKT 070-330-10-10 | 70 | 330 | 25 | 25 | 11 | 11 | 352 | 20 | 6,8 | 11 | 24 | 10,5 | 10,5 | 10 | |
| IST 070-430-10-10 | IKT 070-430-10-10 | 70 | 430 | 25 | 25 | 11 | 11 | 452 | 20 | 6,8 | 11 | 24 | 10,5 | 10,5 | 10 | |
| IST 070-530-10-10 | IKT 070-530-10-10 | 70 | 530 | 25 | 25 | 11 | 11 | 552 | 20 | 6,8 | 11 | 24 | 10,5 | 10,5 | 10 | |
| IST 070-630-10-10 | IKT 070-630-10-10 | 70 | 630 | 25 | 25 | 11 | 11 | 652 | 20 | 6,8 | 11 | 24 | 10,5 | 10,5 | 10 | |
| IST 095-230-10-10 | IKT 095-230-10-10 | 95 | 230 | 25 | 25 | 11 | 11 | 252 | 25 | 7,5 | 12 | 29 | 10,5 | 10,5 | 10 | |
| IST 095-330-10-10 | IKT 095-330-10-10 | 95 | 330 | 25 | 25 | 11 | 11 | 352 | 25 | 7,5 | 12 | 29 | 10,5 | 10,5 | 10 | |
| IST 095-430-10-10 | IKT 095-430-10-10 | 95 | 430 | 25 | 25 | 11 | 11 | 452 | 25 | 7,5 | 12 | 29 | 10,5 | 10,5 | 10 | |
| IST 095-530-10-10 | IKT 095-530-10-10 | 95 | 530 | 25 | 25 | 11 | 11 | 552 | 25 | 7,5 | 12 | 29 | 10,5 | 10,5 | 10 | |
| IST 095-630-10-10 | IKT 095-630-10-10 | 95 | 630 | 25 | 25 | 11 | 11 | 652 | 25 | 7,5 | 12 | 29 | 10,5 | 10,5 | 10 | |
| IST 120-330-10-10 | IKT 120-330-10-10 | 120 | 330 | 30 | 30 | 11 | 14 | 355 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 120-430-10-10 | IKT 120-430-10-10 | 120 | 430 | 30 | 30 | 11 | 14 | 455 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 120-530-10-10 | IKT 120-530-10-10 | 120 | 530 | 30 | 30 | 11 | 14 | 555 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 120-630-10-10 | IKT 120-630-10-10 | 120 | 630 | 30 | 30 | 11 | 14 | 655 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 120-730-10-10 | IKT 120-730-10-10 | 120 | 730 | 30 | 30 | 11 | 14 | 755 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 120-830-10-10 | IKT 120-830-10-10 | 120 | 830 | 30 | 30 | 11 | 14 | 855 | 30 | 7,5 | 12 | 34 | 10,5 | 10,5 | 2 | |
| IST 150-330-12-12 | IKT 150-330-12-12 | 150 | 330 | 30 | 30 | 14 | 14 | 355 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 150-430-12-12 | IKT 150-430-12-12 | 150 | 430 | 30 | 30 | 14 | 14 | 455 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 150-530-12-12 | IKT 150-530-12-12 | 150 | 530 | 30 | 30 | 14 | 14 | 555 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 150-630-12-12 | IKT 150-630-12-12 | 150 | 630 | 30 | 30 | 14 | 14 | 655 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 150-730-12-12 | IKT 150-730-12-12 | 150 | 730 | 30 | 30 | 14 | 14 | 755 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 150-830-12-12 | IKT 150-830-12-12 | 150 | 830 | 30 | 30 | 14 | 14 | 855 | 30 | 10 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-330-12-12 | IKT 185-330-12-12 | 185 | 330 | 30 | 30 | 14 | 14 | 355 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-430-12-12 | IKT 185-430-12-12 | 185 | 430 | 30 | 30 | 14 | 14 | 455 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-530-12-12 | IKT 185-530-12-12 | 185 | 530 | 30 | 30 | 14 | 14 | 555 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-630-12-12 | IKT 185-630-12-12 | 185 | 630 | 30 | 30 | 14 | 14 | 655 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-730-12-12 | IKT 185-730-12-12 | 185 | 730 | 30 | 30 | 14 | 14 | 755 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 185-830-12-12 | IKT 185-830-12-12 | 185 | 830 | 30 | 30 | 14 | 14 | 855 | 30 | 11 | 15 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-330-12-12 | IKT 240-330-12-12 | 240 | 330 | 30 | 30 | 14 | 14 | 355 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-430-12-12 | IKT 240-430-12-12 | 240 | 430 | 30 | 30 | 14 | 14 | 455 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-530-12-12 | IKT 240-530-12-12 | 240 | 530 | 30 | 30 | 14 | 14 | 555 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-630-12-12 | IKT 240-630-12-12 | 240 | 630 | 30 | 30 | 14 | 14 | 655 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-730-12-12 | IKT 240-730-12-12 | 240 | 730 | 30 | 30 | 14 | 14 | 755 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |
| IST 240-830-12-12 | IKT 240-830-12-12 | 240 | 830 | 30 | 30 | 14 | 14 | 855 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 | |



11. ISTL/IKTL – INSULATED SHUNTS WITH SOLDER SOLIDIFIED CONTACT AREAS

Construction and Application:

Manufactured from highly flexible tapes that are braided from annealed Cu-ETP wires, and contact areas, which are pressed to shape after solidified by immersing into alloyed lead-free solder. Applicable as component for current transfer.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.

Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

Contact Areas: a metal alloyed lead-free solidified and pressed.

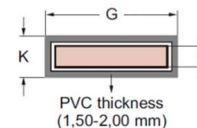
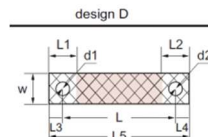
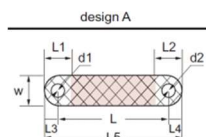
Insulation: special vinyl compound

Max. working temperature: 105°C self-extinguishable: UL 94 VO dielectric strength: 20 kV/mm

Max. working voltage: 1000 V AC - 1500 V DC



| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | | | | | | | | | PACKING min. pcs |
|---------------------|--------------------|----------------------------------|------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|----------|------------------------|
| | | | L mm | L1 mm | L2 mm | L3 mm | L4 mm | L5 mm | w mm | t mm | K mm | G mm | d1 mm | d2 mm | |
| ISTL 025-230-10-8 | IKTL 025-230-10-8 | 25 230 | 25 | 25 | 25 | 11 | 7 | 248 | 20 | 2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 025-330-10-8 | IKTL 025-330-10-8 | 25 330 | 25 | 25 | 25 | 11 | 7 | 348 | 20 | 2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 025-430-10-8 | IKTL 025-430-10-8 | 25 430 | 25 | 25 | 25 | 11 | 7 | 448 | 20 | 2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 025-530-10-8 | IKTL 025-530-10-8 | 25 530 | 25 | 25 | 25 | 11 | 7 | 548 | 20 | 2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 025-630-10-8 | IKTL 025-630-10-8 | 25 630 | 25 | 25 | 25 | 11 | 7 | 648 | 20 | 2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 035 230-10-8 | IKTL 035 230-10-8 | 35 230 | 25 | 25 | 25 | 11 | 7 | 248 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 035 330-10-8 | IKTL 035 330-10-8 | 35 330 | 25 | 25 | 25 | 11 | 7 | 348 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 035 430-10-8 | IKTL 035 430-10-8 | 35 430 | 25 | 25 | 25 | 11 | 7 | 448 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 035 530-10-8 | IKTL 035 530-10-8 | 35 530 | 25 | 25 | 25 | 11 | 7 | 548 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 035 630-10-8 | IKTL 035 630-10-8 | 35 630 | 25 | 25 | 25 | 11 | 7 | 648 | 20 | 3,2 | 7 | 24 | 10,5 | 8,5 | 10 |
| ISTL 050-230-10-8 | IKTL 050-230-10-8 | 50 230 | 25 | 25 | 25 | 11 | 7 | 248 | 20 | 4,5 | 8 | 24 | 10,5 | 8,5 | 10 |
| ISTL 050-330-10-8 | IKTL 050-330-10-8 | 50 330 | 25 | 25 | 25 | 11 | 7 | 348 | 20 | 4,5 | 8 | 24 | 10,5 | 8,5 | 10 |
| ISTL 050-430-10-8 | IKTL 050-430-10-8 | 50 430 | 25 | 25 | 25 | 11 | 7 | 448 | 20 | 4,5 | 8 | 24 | 10,5 | 8,5 | 10 |
| ISTL 050-530-10-8 | IKTL 050-530-10-8 | 50 530 | 25 | 25 | 25 | 11 | 7 | 548 | 20 | 4,5 | 8 | 24 | 10,5 | 8,5 | 10 |
| ISTL 050-630-10-8 | IKTL 050-630-10-8 | 50 630 | 25 | 25 | 25 | 11 | 7 | 648 | 20 | 4,5 | 8 | 24 | 10,5 | 8,5 | 10 |
| ISTL 070-230-10-10 | IKTL 070-230-10-10 | 70 230 | 25 | 25 | 25 | 11 | 11 | 252 | 20 | 5,5 | 9 | 24 | 10,5 | 10,5 | 10 |
| ISTL 070-330-10-10 | IKTL 070-330-10-10 | 70 330 | 25 | 25 | 25 | 11 | 11 | 352 | 20 | 5,5 | 9 | 24 | 10,5 | 10,5 | 10 |
| ISTL 070-430-10-10 | IKTL 070-430-10-10 | 70 430 | 25 | 25 | 25 | 11 | 11 | 452 | 20 | 5,5 | 9 | 24 | 10,5 | 10,5 | 10 |
| ISTL 070-530-10-10 | IKTL 070-530-10-10 | 70 530 | 25 | 25 | 25 | 11 | 11 | 552 | 20 | 5,5 | 9 | 24 | 10,5 | 10,5 | 10 |
| ISTL 070-630-10-10 | IKTL 070-630-10-10 | 70 630 | 25 | 25 | 25 | 11 | 11 | 652 | 20 | 5,5 | 9 | 24 | 10,5 | 10,5 | 10 |
| ISTL 095-230-10-10 | IKTL 095-230-10-10 | 95 230 | 25 | 25 | 25 | 11 | 11 | 252 | 25 | 7 | 11 | 29 | 10,5 | 10,5 | 10 |
| ISTL 095-330-10-10 | IKTL 095-330-10-10 | 95 330 | 25 | 25 | 25 | 11 | 11 | 352 | 25 | 7 | 11 | 29 | 10,5 | 10,5 | 10 |
| ISTL 095-430-10-10 | IKTL 095-430-10-10 | 95 430 | 25 | 25 | 25 | 11 | 11 | 452 | 25 | 7 | 11 | 29 | 10,5 | 10,5 | 10 |
| ISTL 095-530-10-10 | IKTL 095-530-10-10 | 95 530 | 25 | 25 | 25 | 11 | 11 | 552 | 25 | 7 | 11 | 29 | 10,5 | 10,5 | 10 |
| ISTL 095-630-10-10 | IKTL 095-630-10-10 | 95 630 | 25 | 25 | 25 | 11 | 11 | 652 | 25 | 7 | 11 | 29 | 10,5 | 10,5 | 10 |
| ISTL 120-330-10-10 | IKTL 120-330-10-10 | 120 330 | 30 | 30 | 30 | 11 | 14 | 355 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 120-430-10-10 | IKTL 120-430-10-10 | 120 430 | 30 | 30 | 30 | 11 | 14 | 455 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 120-530-10-10 | IKTL 120-530-10-10 | 120 530 | 30 | 30 | 30 | 11 | 14 | 555 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 120-630-10-10 | IKTL 120-630-10-10 | 120 630 | 30 | 30 | 30 | 11 | 14 | 655 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 120-730-10-10 | IKTL 120-730-10-10 | 120 730 | 30 | 30 | 30 | 11 | 14 | 755 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 120-830-10-10 | IKTL 120-830-10-10 | 120 830 | 30 | 30 | 30 | 11 | 14 | 855 | 30 | 7 | 11 | 34 | 10,5 | 10,5 | 2 |
| ISTL 150-330-12-12 | IKTL 150-330-12-12 | 150 330 | 30 | 30 | 30 | 14 | 14 | 355 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 150-430-12-12 | IKTL 150-430-12-12 | 150 430 | 30 | 30 | 30 | 14 | 14 | 455 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 150-530-12-12 | IKTL 150-530-12-12 | 150 530 | 30 | 30 | 30 | 14 | 14 | 555 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 150-630-12-12 | IKTL 150-630-12-12 | 150 630 | 30 | 30 | 30 | 14 | 14 | 655 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 150-730-12-12 | IKTL 150-730-12-12 | 150 730 | 30 | 30 | 30 | 14 | 14 | 755 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 150-830-12-12 | IKTL 150-830-12-12 | 150 830 | 30 | 30 | 30 | 14 | 14 | 855 | 30 | 9 | 13 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-330-12-12 | IKTL 185-330-12-12 | 185 330 | 30 | 30 | 30 | 14 | 14 | 355 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-430-12-12 | IKTL 185-430-12-12 | 185 430 | 30 | 30 | 30 | 14 | 14 | 455 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-530-12-12 | IKTL 185-530-12-12 | 185 530 | 30 | 30 | 30 | 14 | 14 | 555 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-630-12-12 | IKTL 185-630-12-12 | 185 630 | 30 | 30 | 30 | 14 | 14 | 655 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-730-12-12 | IKTL 185-730-12-12 | 185 730 | 30 | 30 | 30 | 14 | 14 | 755 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 185-830-12-12 | IKTL 185-830-12-12 | 185 830 | 30 | 30 | 30 | 14 | 14 | 855 | 30 | 10 | 14 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-330-12-12 | IKTL 240-330-12-12 | 240 330 | 30 | 30 | 30 | 14 | 14 | 355 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-430-12-12 | IKTL 240-430-12-12 | 240 430 | 30 | 30 | 30 | 14 | 14 | 455 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-530-12-12 | IKTL 240-530-12-12 | 240 530 | 30 | 30 | 30 | 14 | 14 | 555 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-630-12-12 | IKTL 240-630-12-12 | 240 630 | 30 | 30 | 30 | 14 | 14 | 655 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-730-12-12 | IKTL 240-730-12-12 | 240 730 | 30 | 30 | 30 | 14 | 14 | 755 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |
| ISTL 240-830-12-12 | IKTL 240-830-12-12 | 240 830 | 30 | 30 | 30 | 14 | 14 | 855 | 30 | 13 | 17 | 34 | 12,5 | 12,5 | 2 |



12.PT – STAINLESS STEEL FLAT BRAIDED SHUNTS WITH SOLDERLESS PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from stainless steel wires, and solderless contact areas pressed from seamless Cu-ETP tubes. The braided tapes and tubes are of the same analysis and conductivity.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.



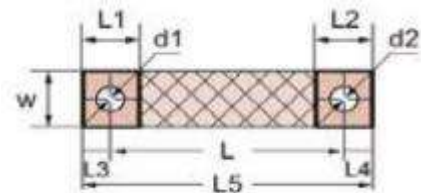
Technical Data:

Material: 0,16 to 0,40 mm stainless steel wire (316L or 304)

- Non-insulated or insulated (shrinking tubes, PVC, silicone tubes etc.)

Contact Areas: Solderless pressed stainless steel tube (316L)

| Stainless Steel | Cross sec. mm ² | DIMENSIONS | | | | according to customer wishes | according to customer wishes |
|-----------------|----------------------------|------------|----------|------|------|------------------------------|------------------------------|
| | | W mm | L1/L2 mm | L mm | d mm | | |
| PT-016 | 16 | 16 | 16 | | | | |
| PT-025 | 25 | 20 | 20 | | | | |
| PT-035 | 35 | 30 | 30 | | | | |
| PT-050 | 50 | 30 | 30 | | | | |
| PT-070 | 70 | 30 | 30 | | | | |
| PT-095 | 95 | 30 | 30 | | | | |
| PT-120 | 120 | 35 | 35 | | | | |
| PT-150 | 150 | 40 | 40 | | | | |



13.SF/KF – FLEXIBLE COPPER CONNECTORS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP wires, and solderless contact areas pressed from seamless Cu-ETP tubes.

Except bare wires and uncoated contact areas, we also manufacture these parts from tinned wires and tin coated contact areas.

You can also ask for L or U shapes except than straight shape. It is possible to manufacture contact areas and the laps according to customers' special designs.

You are totally free to choose the drilling type and hole diameter as you wish.

If insulation is needed, there are choices as PVC, silicone or heat shrinking tubes as well as extruded PVC

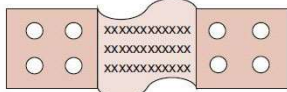
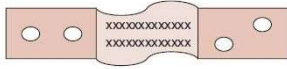
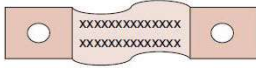


Technical Data:

Material: 0,10 - 0,20 mm annealed Cu ETP wires , uncoated or tinned

Non-insulated or insulated (PVC , shrinking or silicone tubes)

Contact Areas: seamless Cu ETP tubes , uncoated, tinned or silver coated, solderless pressed

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | Currentload ampere | | Standard designs |
|---------------------|-------------------|----------------------------------|------------|----------|---------|---------------------------|-----------------------|------|--|
| | | | W mm | L1 mm | t mm | L mm | DC | AC | |
| SF-12055 | KF-12055 | 4500 | 120 | 120 | 55 | acc. to customers' wishes | 5400 | 5200 |  |
| SF-12040 | KF-12040 | 3000 | 120 | 120 | 40 | | 4800 | 4500 | |
| SF-12030 | KF-12030 | 2000 | 120 | 120 | 30 | | 3900 | 3800 | |
| SF-12025 | KF-12025 | 1500 | 120 | 120 | 22 | | 3400 | 3200 | |
| SF-12020 | KF-12020 | 1200 | 120 | 120 | 20 | | 2900 | 2750 | |
| SF-12018 | KF-12018 | 1000 | 120 | 120 | 18 | | 2650 | 2500 | |
| SF-12015 | KF-12015 | 800 | 120 | 120 | 14 | | 2150 | 2000 | |
| SF-12010 | KF-12010 | 600 | 120 | 120 | 10 | | 1900 | 1750 | |
| SF-10025 | KF-10025 | 1500 | 100 | 100 | 25 | | 2700 | 2550 | |
| SF-10020 | KF-10020 | 1000 | 100 | 100 | 20 | | 2250 | 2150 | |
| SF-10015 | KF-10015 | 800 | 100 | 100 | 15 | | 2100 | 2000 | |
| SF-10012 | KF-10012 | 600 | 100 | 100 | 12 | | 1820 | 1720 | |
| SF-10010 | KF-10010 | 500 | 100 | 100 | 10 | | 1600 | 1500 | |
| SF-10007 | KF-10007 | 400 | 100 | 100 | 7 | | 1400 | 1300 | |
| SF-10005 | KF-10005 | 300 | 100 | 100 | 5 | | 1150 | 1060 | |
| SF-08020 | KF-08020 | 1000 | 80 | 80 | 20 | | 2100 | 1950 | |
| SF-08018 | KF-08018 | 840 | 80 | 80 | 18 | | 1900 | 1800 | |
| SF-08015 | KF-08015 | 670 | 80 | 80 | 15 | | 1700 | 1600 | |
| SF-08012 | KF-08012 | 500 | 80 | 80 | 12 | | 1500 | 1400 | |
| SF-08010 | KF-08010 | 400 | 80 | 80 | 10 | | 1300 | 1200 | |
| SF-08008 | KF-08008 | 350 | 80 | 80 | 8 | 1200 | 1100 | | |
| SF-08007 | KF-08007 | 200 | 80 | 80 | 7 | 950 | 860 | | |
| SF-06015 | KF-06015 | 550 | 60 | 60 | 15 | acc. to customers' wishes | 1400 | 1350 |  |
| SF-06012 | KF-06012 | 500 | 60 | 60 | 12 | | 1350 | 1300 | |
| SF-06010 | KF-06010 | 350 | 60 | 60 | 10 | | 1150 | 1100 | |
| SF-06007 | KF-06007 | 200 | 60 | 60 | 7 | | 900 | 850 | |
| SF-06005 | KF-06005 | 150 | 60 | 60 | 5 | | 700 | 680 | |
| SF-05015 | KF-05015 | 550 | 50 | 50 | 15 | | 1350 | 1200 | |
| SF-05013 | KF-05013 | 400 | 50 | 50 | 13 | | 1050 | 1000 | |
| SF-05010 | KF-05010 | 250 | 50 | 50 | 10 | | 900 | 850 | |
| SF-05007 | KF-05007 | 200 | 50 | 50 | 7 | | 800 | 780 | |
| SF-05005 | KF-05005 | 150 | 50 | 50 | 5 | | 650 | 630 | |
| SF-04015 | KF-04015 | 300 | 40 | 40 | 15 | acc. to customers' wishes | 900 | 850 |  |
| SF-04012 | KF-04012 | 250 | 40 | 40 | 12 | | 800 | 780 | |
| SF-04010 | KF-04010 | 200 | 40 | 40 | 10 | | 700 | 680 | |
| SF-04007 | KF-04007 | 150 | 40 | 40 | 7 | | 600 | 590 | |
| SF-04005 | KF-04005 | 100 | 40 | 40 | 5 | | 500 | 480 | |
| SF-03014 | KF-03014 | 200 | 30 | 30 | 14 | | 650 | 640 | |
| SF-03010 | KF-03010 | 150 | 30 | 30 | 10 | | 550 | 540 | |
| SF-03005 | KF-03005 | 75 | 30 | 30 | 5 | | 400 | 390 | |
| SF-03004 | KF-03004 | 50 | 30 | 30 | 4 | | 300 | 290 | |
| SF-02509 | KF-02509 | 125 | 25 | 25 | 9 | | 500 | 470 | |
| SF-02507 | KF-02507 | 100 | 25 | 25 | 7 | 450 | 420 | | |
| SF-02505 | KF-02505 | 75 | 25 | 25 | 5 | 350 | 340 | | |
| SF-02504 | KF-02504 | 50 | 25 | 25 | 4 | 300 | 280 | | |

14.HSK – AIR COLLED ROUND STRADED CABLES FOR HIGH CURRENT

Construction and Application:

These connectors are manufactured from highly flexible round stranded copper cables, constructed from annealed 0,10mm diameter Cu-ETP1 wires , and solderless pressed contact areas from seamless Cu-ETP tubes.

Besides bare wires and uncoated Cu-ETP tubes , we can also manufacturing them according to your drawings or samples. The shape of the contact area and the type of drilling are totally up to you. We can also deliver them insulated with PVC , heat-shrinkable or silicon tubes.



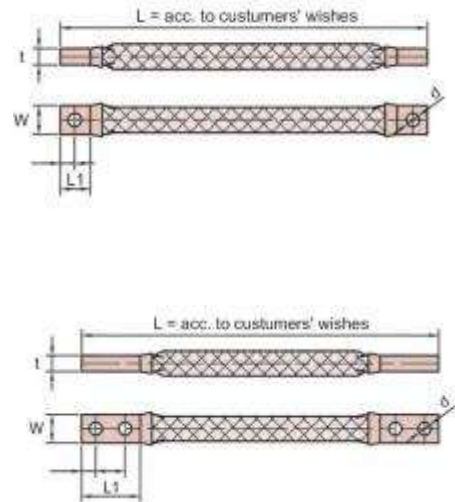
Technical Data:

Material: 0,10 mm annealed Cu ETP wires , uncoated or tinned

- Non-insulated or insulated (PVC , shrinking or silicone tubes)

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed

| UNCOATED Part-No | Cross sec. mm ² | Current load Amperre | type 2 L1 mm | type 1 L1 mm | W mm | t mm |
|---------------------|----------------------------------|----------------------------|--------------------|--------------------|---------|---------|
| HSK - 0070 | 70 | 300A | 30 | 15 | 15 | 8,5 |
| HSK - 0095 | 95 | 360A | 40 | 20 | 20 | 8,3 |
| HSK - 0120 | 120 | 420A | 40 | 20 | 20 | 10 |
| HSK - 0150 | 150 | 480A | 50 | 25 | 25 | 11,5 |
| HSK - 0185 | 185 | 570A | 50 | 25 | 25 | 13,5 |
| HSK - 0240 | 240 | 670A | 60 | 32 | 32 | 12,8 |
| HSK - 0300 | 300 | 780A | 80 | 40 | 40 | 13,3 |
| HSK - 0400 | 400 | 950A | 80 | 40 | 40 | 15,5 |
| HSK - 0500 | 500 | 1100A | 80 | 40 | 40 | 23,5 |
| HSK - 0600 | 600 | 1250A | 80 | 40 | 55 | 18,8 |
| HSK - 0700 | 700 | 1375A | 80 | 40 | 55 | 20,2 |
| HSK - 0750 | 750 | 1450A | 80 | 40 | 55 | 21,8 |
| HSK - 0850 | 850 | 1550A | 80 | 40 | 55 | 22,3 |
| HSK - 1000 | 1000 | 1800A | 80 | 40 | 55 | 27 |



15.HSKK – AIR COLLED ROUND STRANDED CABLES FOR WELDING MACHINES

Construction and Application:

These connectors are produced from highly flexible round stranded copper cables equipped with solderless pressed seamless Cu-ETP tubes as contact areas at the ends.

They provide multi-dimensional movement flexibility as well as high current transfer at welding machines. We deliver them also with punched rubber insulation tube if needed.

Technical Data:

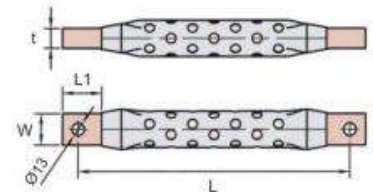
Material: 0,10 mm annealed Cu ETP wires , uncoated or tinned

- punched rubber insulation tube

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed



| UNCOATED Part-No | Cross sec. mm ² | DIMENSIONS | | | |
|---------------------|----------------------------------|------------|----------|---------------------------|---------|
| | | W mm | L1 mm | L mm | t mm |
| HSKK - 0200 | 200 | 32 | 40 | acc. to customers' wishes | 12 |
| HSKK - 0250 | 250 | 32 | 40 | | 13 |
| HSKK - 0300 | 300 | 32 | 40 | | 15 |
| HSKK - 0400 | 400 | 32 | 40 | | 20,5 |
| HSKK - 0500 | 500 | 32 | 40 | | 23 |
| HSKK - 0600 | 600 | 38 | 40 | | 25 |
| HSKK - 0750 | 750 | 38 | 40 | | 32 |
| HSKK - 0850 | 850 | 38 | 40 | | 37 |



16.SST/SKT – SILICONE INSULATED FLAT BRAIDED SHUNTS WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. the braided tapes and tubes are of the same analysis and conductivity.

The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install.



Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

- Silicone (UL 758 tested)

Contact Areas: Solderless pressed seamless Cu-ETP tube.

Operating Voltage: 1000V AC - 1500V DC

Heat Aging: 250°C 10 days

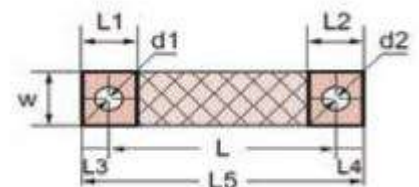
Minimum Temperature - Cold Bent: -50°C

Dielectric Strength: >21kv/mm

Reaction to Fire: CSE Class 1

Smoke Class Determination: F1

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | AC Amps |
|---------------------|-------------------|----------------------------------|------------|----------|---------|---------------------------------|------------|
| | | | W mm | L1 mm | t mm | L mm | |
| SST-02503 | SKT-02503 | 25 | 20 | 20 | 3 | according to customer wishes | 160 |
| SST-03503 | SKT-03503 | 35 | 25 | 25 | 3 | | 200 |
| SST-05004 | SKT-05004 | 50 | 30 | 30 | 4 | | 250 |
| SST-07005 | SKT-07005 | 70 | 30 | 30 | 5 | | 300 |
| SST-09506 | SKT-09506 | 95 | 35 | 35 | 6 | | 350 |
| SST-12007 | SKT-12007 | 120 | 35 | 35 | 7 | | 400 |
| SST-15008 | SKT-15008 | 150 | 35 | 35 | 8 | | 450 |
| SST-18509 | SKT-18508 | 185 | 40 | 40 | 8 | | 500 |
| SST-24009 | SKT-24010 | 240 | 40 | 40 | 10 | | 630 |



17.SSTY/SKTY – SILICONE INSULATED ROUND STRANDED SHUNTS WITH PRESSED CONTACT AREAS

Construction and Application:

These connectors are manufactured from highly flexible tapes, which are braided from annealed Cu-ETP1 wires, and solderless contact areas pressed from seamless Cu-ETP tubes. the braided tapes and tubes are of the same analysis and conductivity.



The best alternative to cable; no cutting, no crimping, flexible, pre-punched, ready to use, quick and easy to install

Technical Data:

Material: 0,20 mm annealed Cu-ETP wires, uncoated or tinned.

Insulation: Silicone (UL 758 tested)

Contact Areas: seamless Cu ETP tubes , uncoated or tinned, solderless pressed

Operating Voltage: 1000V AC - 1500V DC

Heat Aging: 250°C 10 days

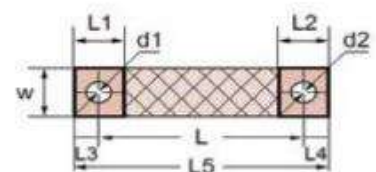
Minimum Temperature - Cold Bent: -50°C

Dielectric Strength: >21kv/mm

Reaction to Fire: CSE Class 1

Smoke Class Determination: F1

| UNCOATED Part-No | TINNED Part-No | Cross sec. mm ² | DIMENSIONS | | | | | | AC Amps |
|---------------------|-------------------|----------------------------------|------------|-------------|---------|---------------------------------|---------------------------------|---------------------------------|------------|
| | | | W mm | L1/L2 mm | t mm | L mm | d1 mm | d2 mm | |
| SSTY-02503 | SKTY-02503 | 25 | 20 | 20 | 3 | according to customer wishes | according to customer wishes | according to customer wishes | 160 |
| SSTY-03503 | SKTY-03503 | 35 | 25 | 25 | 3 | | | | 200 |
| SSTY-05004 | SKTY-05004 | 50 | 30 | 30 | 4 | | | | 250 |
| SSTY-07005 | SKTY-07005 | 70 | 30 | 30 | 5 | | | | 300 |
| SSTY-09506 | SKTY-09506 | 95 | 35 | 35 | 6 | | | | 350 |
| SSTY-12007 | SKTY-12007 | 120 | 35 | 35 | 7 | | | | 400 |
| SSTY-15008 | SKTY-15008 | 150 | 35 | 35 | 8 | | | | 450 |
| SSTY-18509 | SKTY-18508 | 185 | 40 | 40 | 8 | | | | 500 |
| SSTY-24009 | SKTY-24010 | 240 | 40 | 40 | 10 | | | | 630 |



18.PK – FLEXIBLE PRESS WELDED EXPANSION CONNECTORS

Construction and Application:

These connectors are constructed from Cu-HCP foils with a thickness of 0,10 to 0,30 mm by overlapping the needed amount together and welding their ends as required contact areas without using any welding additive. This special welding process takes places under high pressure and intensive heat. These connectors have a uniform cross-section over their entire length and due to their homogeneous molecular structure ; they are perfect electrical conductors.

As press-welded expansion connectors can be subjected to the same loads as the corresponding bare busbars, they are mostly used together with busbar systems. As you can use them at standard dimensions with busbar systems; when installing several connectors side by side , the standard lamination widths are reduced by 2 mm to avoid possible friction. We produce these connectors in S or U form to compensate expansions caused by an increase of generators. They are perfect built to deal with maximum forces due to decentralization and torsion. Especially U forms are manufactured for realize the two-dimensional movement inside welding machines.



Technical Data:

Material: 0,10 - 0,30 mm copper HCP-foils.

Delivery: press- welded

| UNCOATED Part-No | Cross sec. mm ² | DIMENSIONS | | | |
|---------------------|----------------------------------|------------|---------|----------|----------|
| | | W mm | t mm | L1 mm | L2 mm |
| PK-2805-L | 140 | 28 | 5 | | |
| PK-3805-L | 190 | 38 | 5 | | |
| PK-4805-L | 240 | 48 | 5 | | |
| PK-5805-L | 290 | 58 | 5 | | |
| PK-7805-L | 390 | 78 | 5 | | |
| PK-3810-L | 380 | 38 | 10 | | |
| PK-4810-L | 480 | 48 | 10 | | |
| PK-5810-L | 580 | 58 | 10 | | |
| PK-7810-L | 780 | 78 | 10 | | |
| PK-9810-L | 980 | 98 | 10 | | |
| PK-3815-L | 570 | 38 | 15 | | |
| PK-4815-L | 720 | 48 | 15 | | |
| PK-5815-L | 870 | 58 | 15 | | |
| PK-7815-L | 1170 | 78 | 15 | | |
| PK-9815-L | 1470 | 98 | 15 | | |
| PK-3820-L | 760 | 38 | 20 | | |
| PK-4820-L | 960 | 48 | 20 | | |
| PK-5820-L | 1160 | 58 | 20 | | |
| PK-7820-L | 1560 | 78 | 20 | | |
| PK-9820-L | 1960 | 98 | 20 | | |

acc. to customers' wishes

acc. to customers' wishes

19.FLEXIBLE PRESS RIVETED COPPER CONNECTORS FOR WELDING MACHINES

Construction and Application:

The E Cu / Cu ETP strips with 0,10 or 0,20 mm thickness are connected with pressing and riveting them together for the needed shape. Contact areas are additionally strengthened with thicker copper sheets. These kinds of connectors are mainly used where you need two-dimensional movements, greater current transfer, and resistance against heat such as welding guns and machines.



Technical Data:

Material: 0,10 - 0,20 mm copper Cu-ETP.

Contact Areas: Press riveted

| UNCOATED Part-No | Cross sec. mm ² | DIMENSIONS | | | | Weight kg/pcs |
|---------------------|----------------------------------|------------|----------|---------|---------|------------------|
| | | W mm | L1 mm | t mm | L mm | |
| PK-04005-230 | 200 | 40 | 40 | 5 | 230 | 0,48 |
| PK-04008-230 | 320 | 40 | 40 | 8 | 230 | 0,77 |
| PK-04010-230 | 400 | 40 | 40 | 10 | 230 | 0,96 |
| PK-04012-230 | 480 | 40 | 40 | 12 | 230 | 1,15 |
| PK-04015-230 | 600 | 40 | 40 | 15 | 230 | 1,28 |
| PK-04020-230 | 800 | 40 | 40 | 20 | 230 | 1,92 |
| PK-05005-250 | 250 | 50 | 50 | 5 | 250 | 0,65 |
| PK-05008-250 | 400 | 50 | 50 | 8 | 250 | 1,04 |
| PK-05010-250 | 500 | 50 | 50 | 10 | 250 | 1,30 |
| PK-05012-250 | 600 | 50 | 50 | 12 | 250 | 1,55 |
| PK-05015-250 | 750 | 50 | 50 | 15 | 250 | 1,95 |
| PK-05020-250 | 1000 | 50 | 50 | 20 | 250 | 2,60 |
| PK-06005-270 | 300 | 60 | 60 | 5 | 270 | 0,83 |
| PK-06008-270 | 480 | 60 | 60 | 8 | 270 | 1,33 |
| PK-06010-270 | 600 | 60 | 60 | 10 | 270 | 1,66 |
| PK-06012-270 | 750 | 60 | 60 | 12 | 270 | 1,99 |
| PK-06015-270 | 900 | 60 | 60 | 15 | 270 | 2,51 |
| PK-06020-270 | 1200 | 60 | 60 | 20 | 270 | 3,32 |
| PK-08005-310 | 400 | 80 | 80 | 5 | 310 | 1,25 |
| PK-08008-310 | 640 | 80 | 80 | 8 | 310 | 1,99 |
| PK-08010-310 | 800 | 80 | 80 | 10 | 310 | 2,50 |
| PK-08012-310 | 960 | 80 | 80 | 12 | 310 | 3,01 |
| PK-08015-310 | 1200 | 80 | 80 | 15 | 310 | 3,75 |
| PK-08020-310 | 1600 | 80 | 80 | 20 | 310 | 5 |
| PK-10005-350 | 500 | 100 | 100 | 5 | 350 | 1,74 |
| PK-10008-350 | 800 | 100 | 100 | 8 | 350 | 2,81 |
| PK-10010-350 | 1000 | 100 | 100 | 10 | 350 | 3,48 |
| PK-10012-350 | 1200 | 100 | 100 | 12 | 350 | 4,17 |
| PK-10015-350 | 1500 | 100 | 100 | 15 | 350 | 5,27 |
| PK-10020-350 | 2000 | 100 | 100 | 20 | 350 | 6,96 |
| PK-10025-350 | 2500 | 100 | 100 | 25 | 350 | 8,70 |
| PK-12005-390 | 600 | 120 | 120 | 5 | 390 | 2,26 |
| PK-12008-390 | 960 | 120 | 120 | 8 | 390 | 3,68 |
| PK-12010-390 | 1200 | 120 | 120 | 10 | 390 | 4,52 |
| PK-12012-390 | 1440 | 120 | 120 | 12 | 390 | 5,50 |
| PK-12015-390 | 1800 | 120 | 120 | 15 | 390 | 6,97 |
| PK-12020-390 | 2400 | 120 | 120 | 20 | 390 | 9,04 |
| PK-12025-390 | 3000 | 120 | 120 | 25 | 390 | 11,57 |

20. AF - FLEXIBLE ALUMINUM CONNECTORS

Construction and Application:

These connectors are manufactured from flexible tapes, which are braided from aluminum wires, and solderless contact areas pressed from seamless aluminum tubes.

You can also ask for L or U shapes except the straight shape. It is possible to manufacture contact areas and the laps according to customers' special designs.

You are totally free to choose the drilling type and hole diameter as you wish.

If insulation is needed, there are choices as PVC, silicone or heat shrinking tubes as well as extruded PVC

Technical Data:

Material: 0,10 - 0,20 mm aluminum wires.

Insulation: Non-insulated or insulated (PVC , shrinking or silicone tubes).

Contact Areas: seamless aluminum tubes.



| Cat. No | Cross Section [mm ²] | Dim. W [mm] | Dim. L1 [mm] | Dim. t [mm] | Dim.L [mm] |
|----------|----------------------------------|-------------|--------------|-------------|------------|
| AF-12055 | 4500 | 120 | 120 | 55 | |
| AF-12040 | 3000 | 120 | 120 | 40 | |
| AF-12030 | 2000 | 120 | 120 | 30 | |
| AF-12025 | 2000 | 120 | 120 | 22 | |
| AF-12020 | 1200 | 120 | 120 | 20 | |
| AF-12018 | 1000 | 120 | 120 | 18 | |
| AF-12015 | 800 | 120 | 120 | 14 | |
| AF-12010 | 600 | 120 | 120 | 10 | |
| AF-10025 | 1500 | 100 | 100 | 25 | |
| AF-10020 | 1000 | 100 | 100 | 20 | |
| AF-10015 | 800 | 100 | 100 | 15 | |
| AF-10012 | 600 | 100 | 100 | 12 | |
| AF-10010 | 500 | 100 | 100 | 10 | |
| AF-10007 | 400 | 100 | 100 | 7 | |
| AF-10005 | 300 | 100 | 100 | 5 | |
| AF-08020 | 1000 | 80 | 80 | 20 | |
| AF-08018 | 840 | 80 | 80 | 18 | |
| AF-08015 | 670 | 80 | 80 | 15 | |
| AF-08012 | 500 | 80 | 80 | 12 | |
| AF-08010 | 400 | 80 | 80 | 10 | |
| AF-08008 | 350 | 80 | 80 | 8 | |
| AF-08007 | 200 | 80 | 80 | 7 | |
| AF-06015 | 550 | 60 | 60 | 15 | |
| AF-06012 | 500 | 60 | 60 | 12 | |
| AF-06010 | 350 | 60 | 60 | 10 | |
| AF-06007 | 200 | 60 | 60 | 7 | |
| AF-06005 | 150 | 60 | 60 | 5 | |
| AF-05015 | 550 | 50 | 50 | 15 | |
| AF-05013 | 400 | 50 | 50 | 13 | |
| AF-05010 | 250 | 50 | 50 | 10 | |
| AF-05007 | 200 | 50 | 50 | 7 | |
| AF-05005 | 150 | 50 | 50 | 5 | |
| AF-04015 | 300 | 40 | 40 | 15 | |
| AF-04012 | 250 | 40 | 40 | 12 | |
| AF-04010 | 200 | 40 | 40 | 10 | |
| AF-04007 | 150 | 40 | 40 | 7 | |
| AF-04005 | 100 | 40 | 40 | 5 | |
| AF-03014 | 200 | 30 | 30 | 14 | |
| AF-03010 | 150 | 30 | 30 | 10 | |
| AF-03005 | 75 | 30 | 30 | 5 | |
| AF-03004 | 50 | 30 | 30 | 4 | |
| AF-02509 | 125 | 25 | 25 | 9 | |
| AF-02507 | 100 | 25 | 25 | 7 | |
| AF-02505 | 75 | 25 | 25 | 5 | |
| AF-02504 | 50 | 25 | 25 | 4 | |

Acc. to customers wish

21.FB – INSULATED FLEXIBLE BUSBARS

Construction and Application:

These Flexible insulated busbars consist of several layers of uncoated or tinned copper strips and are insulated with highly flexible PVC or TPE compound with extrusion technology. They are excellently suitable for high current connections inside switchgears, solar energy panels and other electro technical installations. It is an ideal replacement for thick cables and solid bus bars.

The ends of the busbars can be used directly as connections by stamping holes on the laminated copper strips at ends.



Technical Data:

Conductor:

- ✓ Annealed copper strips (99.9%Cu)
- ✓ Single layer thickness 0.3~1mm
- ✓ Surface: uncoated or tinned
- ✓ Electrical conductivity: 56.2MS/m (corresponding to 97%IACS)
- ✓ Tensile strength: 200MPa
- ✓ Elongation: 30%

Insulation:

- ✓ Material: high flexible PVC or TPE; Color: PVC black or orange, TPE grey
- ✓ Thickness: 1~1.5mm (orange), 1.8~2.2mm (black)
- ✓ Coating method: extrusion
- ✓ Dielectric strength: >23kV/mm
- ✓ Tensile strength: 20MPa
- ✓ Elongation after 135°C 7-day aging test: >180%
- ✓ Oxygen index: 30%
- ✓ Flame retardant performance: self-extinguishing, UL94-V0

Working temperature:

- ✓ PVC: -30°C ~ +105°C
- ✓ TPE: -40°C ~ +135°C

Operating voltage: 600VAC/750VDC; 1000VAC/1500VDC

Voltage withstand performance with 15min/50Hz AC:

- ✓ Between busbar and ground: >15kV
- ✓ Between busbars: >30kV

Flame retardant performance: self-extinguishing, UL94-V0

UL758 certified

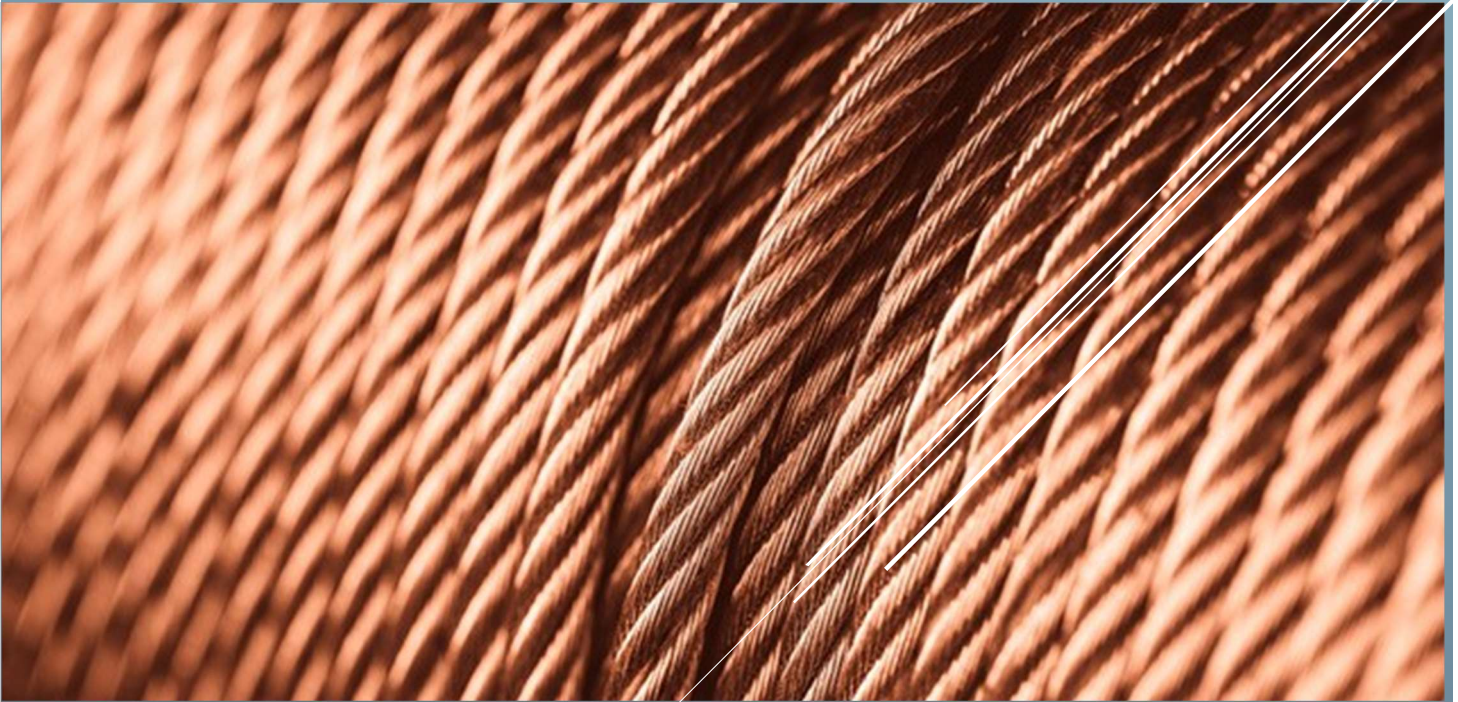
SGS certified: RoHS compliant

Delivery: standard length: 2m or 3 m (25m in roll is possible for 1-layer busbars)



Dimensions and ampacity:

| Cat. No | Dim x burs q-ty | Cross section [mm ²] | Ampacity ΔT=20K | Ampacity ΔT=40K | Ampacity ΔT=50K |
|----------------|-----------------|----------------------------------|-----------------|-----------------|-----------------|
| FB 15,5x0,8x2 | 15,5x0,8x2 | 24,8 | 125 | 175 | 200 |
| FB 15,5x0,8x3 | 15,5x0,8x3 | 37,2 | 160 | 210 | 240 |
| FB 15,5x0,8x4 | 15,5x0,8x4 | 49,6 | 195 | 265 | 295 |
| FB 15,5x0,8x6 | 15,5x0,8x6 | 74,4 | 225 | 320 | 360 |
| FB 15,5x0,8x8 | 15,5x0,8x8 | 99,2 | 265 | 380 | 430 |
| FB 15,5x0,8x10 | 15,5x0,8x10 | 124 | 300 | 420 | 480 |
| FB 20x1x2 | 20x1x2 | 40 | 170 | 240 | 270 |
| FB 20x1x3 | 20x1x3 | 60 | 230 | 320 | 360 |
| FB 20x1x4 | 20x1x4 | 80 | 270 | 380 | 440 |
| FB 20x1x5 | 20x1x5 | 100 | 300 | 430 | 490 |
| FB 20x1x6 | 20x1x6 | 120 | 330 | 470 | 530 |
| FB 20x1x8 | 20x1x8 | 160 | 400 | 560 | 620 |
| FB 20x1x10 | 20x1x10 | 200 | 420 | 580 | 650 |
| FB 24x1x2 | 24x1x2 | 48 | 200 | 280 | 320 |
| FB 24x1x3 | 24x1x3 | 72 | 250 | 360 | 410 |
| FB 24x1x4 | 24x1x4 | 96 | 280 | 410 | 460 |
| FB 24x1x5 | 24x1x5 | 120 | 330 | 470 | 530 |
| FB 24x1x6 | 24x1x6 | 144 | 360 | 510 | 570 |
| FB 24x1x8 | 24x1x8 | 192 | 420 | 590 | 670 |
| FB 24x1x10 | 24x1x10 | 240 | 500 | 700 | 790 |
| FB 32x1x2 | 32x1x2 | 64 | 230 | 320 | 360 |
| FB 32x1x3 | 32x1x3 | 96 | 280 | 410 | 460 |
| FB 32x1x4 | 32x1x4 | 128 | 320 | 460 | 520 |
| FB 32x1x5 | 32x1x5 | 160 | 390 | 550 | 610 |
| FB 32x1x6 | 32x1x6 | 192 | 440 | 620 | 700 |
| FB 32x1x8 | 32x1x8 | 256 | 510 | 720 | 822 |
| FB 32x1x10 | 32x1x10 | 320 | 600 | 840 | 930 |
| FB 40x1x2 | 40x1x2 | 80 | 240 | 330 | 380 |
| FB 40x1x3 | 40x1x3 | 120 | 330 | 480 | 540 |
| FB 40x1x4 | 40x1x4 | 160 | 400 | 560 | 630 |
| FB 40x1x5 | 40x1x5 | 200 | 450 | 630 | 710 |
| FB 40x1x6 | 40x1x6 | 240 | 480 | 680 | 750 |
| FB 40x1x8 | 40x1x8 | 320 | 600 | 830 | 920 |
| FB 40x1x10 | 40x1x10 | 400 | 670 | 920 | 1030 |
| FB 50x1x3 | 50x1x3 | 150 | 400 | 570 | 650 |
| FB 50x1x4 | 50x1x4 | 200 | 490 | 700 | 790 |
| FB 50x1x5 | 50x1x5 | 250 | 540 | 780 | 880 |
| FB 50x1x6 | 50x1x6 | 300 | 590 | 840 | 950 |
| FB 50x1x8 | 50x1x8 | 400 | 680 | 1000 | 1130 |
| FB 50x1x10 | 50x1x10 | 500 | 750 | 1100 | 1300 |
| FB 63x1x5 | 63x1x5 | 315 | 650 | 900 | 1000 |
| FB 63x1x6 | 63x1x6 | 378 | 690 | 980 | 1100 |
| FB 63x1x8 | 63x1x8 | 504 | 840 | 1200 | 1350 |
| FB 63x1x10 | 63x1x10 | 630 | 920 | 1300 | 1450 |
| FB 80x1x5 | 80x1x5 | 400 | 700 | 1100 | 1230 |
| FB 80x1x6 | 80x1x6 | 480 | 780 | 1210 | 1360 |
| FB 80x1x8 | 80x1x8 | 640 | 950 | 1400 | 1570 |
| FB 80x1x10 | 80x1x10 | 800 | 1090 | 1550 | 1730 |
| FB 100x1x5 | 100x1x5 | 500 | 860 | 1250 | 1400 |
| FB 100x1x6 | 100x1x6 | 600 | 950 | 1380 | 1530 |
| FB 100x1x8 | 100x1x8 | 800 | 1100 | 1580 | 1760 |
| FB 100x1x10 | 100x1x10 | 1000 | 1220 | 1710 | 1920 |
| FB 100x1x12 | 100x1x12 | 1200 | 1300 | 1800 | 2010 |



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