

MMJ 300/500V

PFXP 300/500V

EKK Light 300/500V



SFS 2091:2011
NEK 535:2012
SS 424 02 19-3:1998

PVC-sheathed cables for power installation



| CONSTRUCTION | |
|------------------------|--|
| Conductors: | annealed copper solid class 1 (ER), or circular stranded conductor class 2 (FR) acc. to EN 60228 |
| Insulation: | special PVC compound type TI1 acc. to EN 50363-3 |
| Inner covering: | not vulcanized rubber compound |
| Sheath: | special PVC compound type TM1 acc. to EN 50363-4-1 |

| CHARACTERISTIC | | |
|---|--|---|
| Colour of sheath: | white RAL 9003 - UV protected | |
| Core identification: | | |
| | with protective conductor "G" | without protective conductor "X" |
| 2-core: | | blue, brown |
| 3-core: | green-yellow, blue, brown | brown, black, grey |
| 3-core*: | | blue, brown, black |
| 4-core: | green-yellow, brown, black, grey | blue, brown, black, grey |
| 4-core*: | green/yellow, blue, brown, black | |
| 5-core: | green-yellow, blue, brown, black, grey | blue, brown, black, grey, black |
| * For certain applications only. | | |
| Maximum conductor operating temperature: | +70°C | |
| Lowest ambient temperature for fixed installation: | -30°C | |
| Lowest installation temperature: | -15°C | |
| Maximum short-circuit conductor temperature: | +160°C | |
| Minimum bending radius: | 6 x D, | D – overall diameter |
| Test voltage: | 2000V | |

| REACTION TO FIRE | |
|---|---------------|
| ▪ Flame retardant: | IEC 60332-1-2 |
| ▪ CPR – reaction to fire class (acc. to EN 50575): | Eca |

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APPLICATIONS

For fixed installation. Usable in open, dry or humid and wet environment. Can be use also in masonry and in concrete however not suitable for imbedding in solidified or compressed concrete without protective pipe. Cables may also be used outside. The conductor insulation shall be protected against UV light/radiation that can occur in light fittings, illuminated signs and the like. Cables with conductors higher than 4 (4 included) may be layed directly in ground if installed properly and carefully acc. to REN leaf 9000 guide.

Standard length cable packing

100 m coils or 500 m on drums.

Other forms of packing and delivery are available on request.

APPROVALS

MMJ: SGS FIMKO, GOST

EKK Light: INTERTEK SEMKO, GOST

| Number and cross-sectional area of conductor | Class conductor | Nominal thickness of insulation | Nominal thickness of sheath | Approximate overall diameter | Approximate net weight of cables | Maximum conductor resistance at temperature 20°C | Minimum insulation resistance at 70°C |
|--|-----------------|---------------------------------|-----------------------------|------------------------------|----------------------------------|--|---------------------------------------|
| n x mm ² | | mm | mm | mm | kg/km | Ω/km | MΩ. km |
| 2x1,5ER* | 1 | 0,7 | 1,2 | 8,2 | 108 | 12,1 | 0,011 |
| 2x1,5FR | 2 | 0,7 | 1,2 | 8,3 | 110 | 12,1 | 0,011 |
| 2x2,5ER* | 1 | 0,8 | 1,2 | 9,4 | 148 | 7,41 | 0,010 |
| 2x2,5FR | 2 | 0,8 | 1,2 | 9,6 | 154 | 7,41 | 0,010 |
| 2x4ER | 1 | 0,8 | 1,2 | 10,0 | 186 | 4,61 | 0,009 |
| 2x4FR | 2 | 0,8 | 1,2 | 10,6 | 202 | 4,61 | 0,009 |
| 2x6ER | 1 | 0,8 | 1,2 | 11,0 | 240 | 3,08 | 0,008 |
| 2x6FR | 2 | 0,8 | 1,2 | 11,3 | 251 | 3,08 | 0,008 |
| 2x10FR** | 2 | 1,0 | 1,4 | 15,2 | 442 | 1,83 | 0,0065 |
| 2x16FR** | 2 | 1,0 | 1,4 | 16,6 | 583 | 1,15 | 0,0052 |
| 3x1,5ER* | 1 | 0,7 | 1,2 | 8,7 | 126 | 12,1 | 0,011 |
| 3x1,5FR | 2 | 0,7 | 1,2 | 8,8 | 129 | 12,1 | 0,011 |
| 3x2,5ER* | 1 | 0,8 | 1,2 | 9,9 | 176 | 7,41 | 0,010 |
| 3x2,5FR | 2 | 0,8 | 1,2 | 10,1 | 182 | 7,41 | 0,010 |
| 3x4ER | 1 | 0,8 | 1,2 | 10,6 | 226 | 4,61 | 0,009 |
| 3x4FR | 2 | 0,8 | 1,2 | 11,3 | 244 | 4,61 | 0,009 |
| 3x6ER | 1 | 0,8 | 1,4 | 12,0 | 308 | 3,08 | 0,008 |

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| Number and cross-sectional area of conductor | Class conductor | Nominal thickness of insulation | Nominal thickness of sheath | Approximate overall diameter | Approximate net weight of cables | Maximum conductor resistance at temperature 20°C | Minimum insulation resistance at 70°C |
|--|-----------------|---------------------------------|-----------------------------|------------------------------|----------------------------------|--|---------------------------------------|
| n x mm ² | | mm | mm | mm | kg/km | Ω/km | MΩ. km |
| 3x6FR | 2 | 0,8 | 1,4 | 12,4 | 321 | 3,08 | 0,008 |
| 3x10FR** | 2 | 1,0 | 1,4 | 15,7 | 522 | 1,83 | 0,0065 |
| 3x16FR** | 2 | 1,0 | 1,4 | 18,1 | 751 | 1,15 | 0,0052 |
| 4x1,5ER* | 1 | 0,7 | 1,2 | 9,4 | 150 | 12,1 | 0,011 |
| 4x1,5FR | 2 | 0,7 | 1,2 | 9,6 | 154 | 12,1 | 0,011 |
| 4x2,5ER* | 1 | 0,8 | 1,2 | 10,8 | 212 | 7,41 | 0,010 |
| 4x2,5FR | 2 | 0,8 | 1,2 | 11,1 | 220 | 7,41 | 0,010 |
| 4x4ER | 1 | 0,8 | 1,4 | 12,0 | 288 | 4,61 | 0,009 |
| 4x4FR | 2 | 0,8 | 1,4 | 12,7 | 310 | 4,61 | 0,009 |
| 4x6ER | 1 | 0,8 | 1,4 | 13,4 | 387 | 3,08 | 0,008 |
| 4x6FR | 2 | 0,8 | 1,4 | 13,8 | 401 | 3,08 | 0,008 |
| 4x10FR** | 2 | 1,0 | 1,4 | 17,2 | 643 | 1,83 | 0,0065 |
| 4x16FR** | 2 | 1,0 | 1,4 | 20,0 | 943 | 1,15 | 0,0052 |
| 5x1,5ER* | 1 | 0,7 | 1,2 | 10,2 | 181 | 12,1 | 0,011 |
| 5x1,5FR | 2 | 0,7 | 1,2 | 10,4 | 186 | 12,1 | 0,011 |
| 5x2,5ER* | 1 | 0,8 | 1,2 | 11,7 | 258 | 7,41 | 0,010 |
| 5x2,5FR | 2 | 0,8 | 1,2 | 12,1 | 268 | 7,41 | 0,010 |
| 5x4ER | 1 | 0,8 | 1,4 | 12,3 | 359 | 4,61 | 0,009 |
| 5x4FR | 2 | 0,8 | 1,4 | 14,1 | 385 | 4,61 | 0,009 |
| 5x6ER | 1 | 0,8 | 1,4 | 14,6 | 474 | 3,08 | 0,008 |
| 5x6FR | 2 | 0,8 | 1,4 | 15,1 | 491 | 3,08 | 0,008 |
| 5x10FR** | 2 | 1,0 | 1,4 | 18,6 | 779 | 1,83 | 0,0065 |
| 5x16FR** | 2 | 1,0 | 1,6 | 22,2 | 1167 | 1,15 | 0,0052 |

*MMJ/PFXP/EKK Light

** based on NEK 535:2012

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Current ratings acc. to DIN VDE 0298 Part 4

Operating temperature at conductor 70°C; ambient air temperature 30°C

| Installation: - in thermally insulated walls - in insulating tubes | Multicore sheathed cables in insulating tubes, in a thermally insulated walls | | Multicore sheathed cables in insulating tubes on a wall | | Single or multicore sheathed cables on a wall | | Multicore sheathed cables with a space of minimum 0,3 x diameter d to wall | |
|--|---|-----------------|---|-----------------|---|-----------------|--|-----------------|
| Number of loaded cores | 2 | 3 ¹⁾ | 2 | 3 ¹⁾ | 2 | 3 ¹⁾ | 2 | 3 ¹⁾ |
| Cross-section, mm ² | Current ratings in Ampere (A) | | | | | | | |
| 1,5 | 15,5 | 13,0 | 16,5 | 15,0 | 19,5 | 17,5 | 22 | 18,5 |
| 2,5 | 18,5 | 17,5 | 23 | 20 | 27 | 24 | 30 | 25 |
| 4 | 25 | 23 | 30 | 27 | 36 | 32 | 40 | 34 |
| 6 | 32 | 29 | 38 | 34 | 46 | 41 | 51 | 43 |
| 10 | 43 | 39 | 52 | 46 | 63 | 57 | 70 | 60 |
| 16 | 57 | 52 | 69 | 62 | 85 | 76 | 94 | 80 |

Conversion factors for ambient temperature over 30°C

| Ambient temperature, °C | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 |
|-------------------------|------|------|------|------|------|------|------|------|
| Conversion factors | 1,00 | 0,94 | 0,87 | 0,79 | 0,71 | 0,61 | 0,50 | 0,35 |

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