

## K-FLEX 3500 C HF

FT 02 19/11/2018 FR

### Application

Les câbles K-FLEX 3500 C HF sont des câbles sans halogène prévus pour l'alimentation des équipements électriques industriels de forte puissance. Leur tresse de cuivre étamé et les systèmes environnants les protègent du rayonnement électromagnétique.

### Application

The K-FLEX 3500 C HF cables are halogen free and designed to feed high powered electrical equipment. Their tinned copper braid protects them, and the systems in the vicinity, from electromagnetic rays.



### Remarques

- sans halogène
- NF C32-070 cat C1
- fabrication italienne via KCIIndustrie du groupe TKH

### Remarks

- free-halogen
- NF C32-070 cat C1
- Made in Italy from KCIIndustrie, a firm of TKH group

### Construction

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Matériau du conducteur | cuivre nu                                       |
| Classe du conducteur   | selon IEC 60228 classe 5                        |
| Isolant conducteur     | mélange spécial sans halogène                   |
| Repérage               | Noir numéroté                                   |
| Assemblage             | conducteurs assemblés en couches sous ruban PES |
| Blindage général       | tresse de cuivre étamé, recouvrement env. 85%   |
| Gaine extérieure       | mélange spécial sans halogène                   |
| Couleur de la gaine    | gris                                            |

### Données techniques

|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Tension nominale      | Uo/U 300/500 V                                                                                                                      |
| Tension d'essai       | 3000 V                                                                                                                              |
| Rayon courbure min    | 20 x d                                                                                                                              |
| Temp. service min/max | -15°C / +70°C                                                                                                                       |
| Comportement au feu   | non propagateur de la flamme<br>NF C32-070/C2 – IEC 60332-1-2<br>non propagateur de l'incendie<br>NF C32-070/C1 – IEC 60322-3-24/25 |
| LSZH                  | IEC 60754-1 & -2<br>IEC 61034                                                                                                       |
| CPR Level             | Cca s1d1a1 EN50575                                                                                                                  |

### Structure

|                     |                                           |
|---------------------|-------------------------------------------|
| conductor material  | bare copper strand                        |
| conductor class     | acc. to IEC 60228 class 5                 |
| core insulation     | special halogen-free compound             |
| core identification | Black numbered                            |
| stranding           | stranded in layers under PES tape         |
| overall shield      | copper braid tinned, coverage approx. 85% |
| outer sheath        | special halogen-free compound             |
| sheath colour       | grey                                      |

### Specifications

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| rated voltage         | Uo/U 300/500 V                                                                                          |
| testing voltage       | 3000 V                                                                                                  |
| min. bending radius   | 20 x d                                                                                                  |
| operat. temp. min/max | -15°C / +70°C                                                                                           |
| burning behaviour     | flame-retardant<br>NF C32-070/C2 – IEC 60332-1-2<br>fire-retardant<br>NF C32-070/C1 – IEC 60322-3-24/25 |
| LSZH                  | IEC 60754-1 & -2<br>IEC 61034                                                                           |
| CPR level             | Cca s1d1a1 EN50575                                                                                      |



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| Dimensions<br>n x mm <sup>2</sup><br>Dimension<br>n x mm <sup>2</sup> | Ø extérieur<br>mm<br>outer Ø<br>mm | Poids<br>kg/km<br>Weight<br>kg/km | Dimensions<br>n x mm <sup>2</sup><br>Dimension<br>n x mm <sup>2</sup> | Ø extérieur<br>mm<br>outer Ø<br>mm | Poids<br>kg/km<br>Weight<br>kg/km |
|-----------------------------------------------------------------------|------------------------------------|-----------------------------------|-----------------------------------------------------------------------|------------------------------------|-----------------------------------|
| 2x0.5                                                                 | 5.5                                | 44                                | 2x1.5                                                                 | 6.9                                | 76                                |
| 3x0.5                                                                 | 5.8                                | 52                                | 3x1.5                                                                 | 7.4                                | 101                               |
| 4x0.5                                                                 | 6.3                                | 67                                | 4x1.5                                                                 | 8.1                                | 123                               |
| 5x0.5                                                                 | 6.9                                | 79                                | 5x1.5                                                                 | 8.9                                | 153                               |
| 7x0.5                                                                 | 7.5                                | 100                               | 7x1.5                                                                 | 9.8                                | 194                               |
| 12x0.5                                                                | 9.7                                | 159                               | 8x1.5                                                                 | 11.4                               | 244                               |
| 18x0.5                                                                | 11.5                               | 223                               | 12x1.5                                                                | 12.8                               | 313                               |
| 25x0.5                                                                | 13.4                               | 291                               | 18x1.5                                                                | 15.4                               | 472                               |
| 34x0.5                                                                | 15.7                               | 405                               | 24x1.5                                                                | 17.7                               | 602                               |
| 2x0.75                                                                | 5.9                                | 51                                | 25x1.5                                                                | 17.8                               | 620                               |
| 3x0.75                                                                | 6.3                                | 67                                | 34x1.5                                                                | 20.9                               | 838                               |
| 4x0.75                                                                | 6.9                                | 81                                | 2x2.5                                                                 | 8.3                                | 111                               |
| 5x0.75                                                                | 7.5                                | 101                               | 3x2.5                                                                 | 8.9                                | 147                               |
| 6x0.75                                                                | 8.2                                | 117                               | 4x2.5                                                                 | 9.8                                | 187                               |
| 7x0.75                                                                | 8.2                                | 122                               | 5x2.5                                                                 | 10.8                               | 227                               |
| 8x0.75                                                                | 9.6                                | 160                               | 7x2.5                                                                 | 11.8                               | 290                               |
| 10x0.75                                                               | 10.4                               | 177                               | 12x2.5                                                                | 15.9                               | 496                               |
| 12x0.75                                                               | 10.7                               | 197                               | 18x2.5                                                                | 18.8                               | 724                               |
| 18x0.75                                                               | 12.6                               | 284                               | 3x4                                                                   | 10.5                               | 209                               |
| 25x0.75                                                               | 14.8                               | 392                               | 4x4                                                                   | 11.5                               | 268                               |
| 34x0.75                                                               | 17.3                               | 520                               | 5x4                                                                   | 12.8                               | 332                               |
| 2x1                                                                   | 6.3                                | 63                                | 7x4                                                                   | 14.3                               | 441                               |
| 3x1                                                                   | 6.7                                | 77                                | 3x6                                                                   | 12.3                               | 296                               |
| 4x1                                                                   | 7.3                                | 98                                | 4x6                                                                   | 13.8                               | 394                               |
| 5x1                                                                   | 8.0                                | 117                               | 5x6                                                                   | 15.3                               | 489                               |
| 6x1                                                                   | 8.7                                | 140                               | 4x10                                                                  | 17.1                               | 614                               |
| 7x1                                                                   | 8.7                                | 147                               | 5x10                                                                  | 19.1                               | 763                               |
| 8x1                                                                   | 10.1                               | 184                               | 4x16                                                                  | 19.9                               | 890                               |
| 12x1                                                                  | 11.4                               | 236                               | 5x16                                                                  | 22.2                               | 1107                              |
| 18x1                                                                  | 13.7                               | 340                               | 4x25                                                                  | 24.6                               | 1355                              |
| 25x1                                                                  | 15.8                               | 464                               | 4x35                                                                  | 27.9                               | 1799                              |
| 34x1                                                                  | 18.5                               | 626                               | 4x50                                                                  | 35.0                               | 2685                              |
|                                                                       |                                    |                                   | 4x70                                                                  | 40.0                               | 3605                              |

• versions spéciales, autres dimensions, sections, couleur de la gaine et des conducteurs sur demande  
 • we are pleased to produce special versions, other dimensions, core and jacket colours on request.