

## ■ HDHp-J (O) 450/750V

### Power and telecommunication cables



#### TECHNICAL INFORMATION:

Single-wire copper conductors (D) in halogen-free insulation (H) and in a halogen-free coating (H) flat (p) sheet with green-yellow protective conductor (J) or without a green-yellow protective conductor (O)

#### CONSTRUCTION:

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductors                                             | copper, single-wire, class. 1, acc. to standard PN-EN 60228                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Insulation                                             | special halogen-free polymer compound                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sheath                                                 | special halogen-free polymer compound, white colour                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Insulation colours                                     | HDHp-O<br>2-conductor: blue, brown<br>3-conductor: brown, black, grey or blue, brown, black<br>4-conductor: blue, brown, black, grey<br>5-conductor: blue, brown, black, grey, black<br>HDHp-J<br>3-conductor: green-yellow, blue, brown<br>4-conductor: yellow-green, black, brown, grey or yellow-green, blue, brown, black<br>5-conductor: green-yellow, blue, brown, black, grey                                                                                          |
| Operating temperature                                  | od -40°C do +70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nominal voltage                                        | 450/750 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum bending radius                                 | conductor outer diameter D [mm]<br>6xD                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Permissible conductor operating temperature            | +70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Permissible conductor temperature during short circuit | +160°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Application                                            | halogen-free power supply conductors for installations in facilities where human life and property must be protected against fire (hotels, hospitals, schools, airports, underground and train stations, industrial installations); conductors to be laid in dry and moist rooms, over and in plasterwork, in brick walls and directly in concrete; only permanent installation possible; in outdoor or underground installations cables must be laid in cable ducts or tubes |
| Packing                                                | coils of length of 100 m and others, according to customer's wishes                                                                                                                                                                                                                                                                                                                                                                                                           |

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| HDHp-J(O) 450/750V                                                      |                                                      |                                   |
|-------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|
| Number and nominal cross-section of conductor<br>[n x mm <sup>2</sup> ] | Approximate outer dimension of the conductor<br>[mm] | Approximate cable mass<br>[kg/km] |
| 2 x 1                                                                   | 4,9 x 7,4                                            | 60                                |
| 2 x 1,5                                                                 | 5,2 x 7,9                                            | 72                                |
| 2 x 2,5                                                                 | 5,8 x 9,1                                            | 100                               |
| 2 x 4                                                                   | 6,2 x 10,0                                           | 132                               |
| 2 x 6                                                                   | 6,7 x 11,0                                           | 175                               |
| 2 x 10                                                                  | 8,1 x 13,6                                           | 287                               |
| 3 x 1                                                                   | 4,9 x 10,0                                           | 84                                |
| 3 x 1,5                                                                 | 5,2 x 10,7                                           | 101                               |
| 3 x 2,5                                                                 | 5,8 x 12,5                                           | 143                               |
| 3 x 4                                                                   | 6,2 x 13,8                                           | 191                               |
| 3 x 6                                                                   | 6,9 x 15,5                                           | 272                               |
| 3 x 10                                                                  | 8,1 x 19,1                                           | 425                               |
| 4 x 1                                                                   | 4,9 x 12,5                                           | 107                               |
| 4 x 1,5                                                                 | 5,2 x 13,4                                           | 131                               |
| 4 x 2,5                                                                 | 5,8 x 15,8                                           | 186                               |
| 4 x 4                                                                   | 6,4 x 17,8                                           | 270                               |
| 4 x 6                                                                   | 6,9 x 19,8                                           | 359                               |
| 4 x 10                                                                  | 8,1 x 24,6                                           | 563                               |
| 5 x 1                                                                   | 4,9 x 15,0                                           | 131                               |
| 5 x 1,5                                                                 | 5,2 x 16,2                                           | 161                               |
| 5 x 2,5                                                                 | 5,8 x 19,2                                           | 229                               |
| 5 x 4                                                                   | 6,4 x 21,6                                           | 335                               |
| 5 x 6                                                                   | 6,9 x 24,1                                           | 446                               |
| 5 x 10                                                                  | 8,1 x 30,1                                           | 701                               |

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