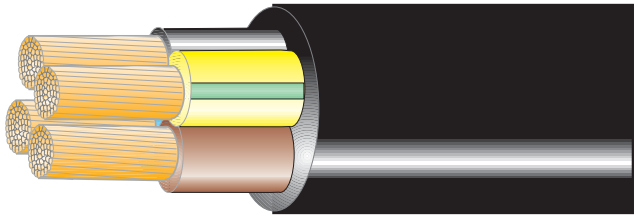
Draka

Industry & Specialty | Industrial

# DRAKAFLEX-TARMO H07BN4-F 450/750 V LSZH (-50°C - +90°C)



**Application fields**
Halogen free oil- and weather resistant cable for connection to moveable items and motors, outdoors, in spaces with fire and explosion risks, in humid rooms with corrosive contents and in hostile surroundings, e.g. in industry and agriculture. Also for fixed installation in temporary buildings and cabins. Suitable for working sites. Use up to 1000 V AC is permitted for fixed, protected installation (in conduit or appliances) and also for motor connections of hoisting motors and the like. Max direct voltage 742/1238 V DC.

**Standard**
HD 22.12 Part 6 (H07BN4-F) and
HD 22.12 Part 4 (H07BB-F) and
HD 22.4 (H07RN-F)
SS-EN 50267-2-2 (corrosive gases)
SS-EN 50268-2 (smoke density)
IEC 60811-2-1 (Ozone protection)

**Fire propagation class**
F2 acc. to SS 424 14 75
and IEC 60332-1
and SS-EN 50265-2-1

**Temperature range**
In continuous operation
max. conductor temp 90 °C
The cable is flexible down to: -50 °C

**Approval**
‹HAR›, CE

**Material declaration**
DRAKAFLEX-TARMO H07BN4-F

**Bending radius**
6 x overall diameter

**Max tensile stress (N)**
Total copper area x 15 N/mm²

**Design**

| | |
|---|---|
| Conductor: | Flexible and annealed copper acc. to IEC 60228 class 5 |
| Insulation: | EPDM-rubber class EI6 |
| Core identification: | 2-core: blue, brown<br>3-core: green/yellow, blue, brown<br>4-core: green/yellow, brown, black, grey<br>5-core: green/yellow, blue, brown, black, grey<br>7-core: green/yellow, 6 cores black number-marked 1-6 |
| Sheath: | Weather- and oil-resistant rubber, halogen free. Fulfills class EM2, EM6 and EM7 |
| Marking e.g.: | DRAKAFLEX-TARMO H07BN4-F 5G2,5 mm² ‹HAR› |

| Number of cores x cross-section of conductor mm² | Overall diameter (approx.) mm | Weight (approx.) kg/100 m | Standard delivery length m | Standard drum size /Package | Article-number |
|---|---|---|---|---|---|
| 2x1 | 8,3 | 9,3 | 500 | K6 | 956502070205 |
| 2x2,5 | 11,1 | 15,9 | 500 | K6 | 956502100205 |
| 3G1 | 8,8 | 11,4 | 500 | K6 | 952503070205 |
| 3G1,5 | 10,0 | 13,7 | 100 | Coil | 952503080202 |
| 3G1,5 | 10,0 | 13,7 | 500 | K6 | 956503080205 |
| 3G2,5 | 11,5 | 17,9 | 500 | K7 | 956503100205 |
| 3G4 | 13,5 | 26,5 | 500 | K7 | 956503110205 |
| 3G6 | 15,6 | 36,5 | 500 | K8 | 956503120205 |
| 4G1 | 10 | 13,0 | 500 | K6 | 956504070205 |
| 4G1,5 | 10,5 | 15,4 | 500 | K6 | 956504080205 |
| 4G2,5 | 12,4 | 23,7 | 500 | K7 | 956504100205 |
| 4G6 | 16,8 | 45,1 | 500 | K8 | 956504120205 |

| Number of cores x cross-section of conductor mm² | Overall diameter (approx.) mm | Weight (approx.) kg/100 m | Standard delivery length m | Standard drum size /Package | Article-number |
|---|---|---|---|---|---|
| 4G10 | 22,9 | 80,1 | 500 | K11 | 956504130205 |
| 4G16 | 26 | 111,3 | 500 | K12 | 956504140205 |
| 5G1,5 | 11,6 | 18,9 | 50 | Coil | 956505080201 |
| 5G1,5 | 11,6 | 18,9 | 500 | K7 | 956505080205 |
| 5G2,5 | 13,5 | 27,3 | 50 | Coil | 956505100201 |
| 5G2,5 | 13,5 | 27,3 | 500 | K7 | 956505100205 |
| 5G4 | 16,9 | 41,3 | 500 | K8 | 956505110205 |
| 5G6 | 19,0 | 52,9 | 500 | K9 | 956505120205 |
| 5G10 | 25,5 | 95,4 | 500 | K12 | 956505130205 |
| 5G16 | 28,5 | 136,7 | 500 | K12 | 956505140205 |
| 7G1,5 | 14,8 | 31,0 | 500 | K8 | 956507080205 |
| 7G2,5 | 17,4 | 43,6 | 500 | K9 | 956507100205 |

## Electrical data

| Type | Resistance at 20°C (ohm/km) | Reactance at 20°C and 50 Hz (ohm/km) | Current carrying capacity with 90°C at conductor and ambient temperature at 30°C. (A) | Voltage drop between phases (V/A/km) |
|---|---|---|---|---|
| 3G1,5 | 13,3 | 0,106 | 23 | 26,9 |
| 3G2,5 | 7,98 | 0,101 | 32 | 16,2 |
| 3G4 | 4,95 | 0,100 | 43 | 10,1 |
| 3G6 | 3,30 | 0,094 | 56 | 6,7 |
| 3G10 | 1,91 | 0,090 | 77 | 3,9 |
| 5G1,5 | 13,3 | 0,117 | 21 | 23,3 |
| 5G2,5 | 7,98 | 0,113 | 29 | 14,0 |
| 5G4 | 4,95 | 0,110 | 38 | 8,7 |
| 5G6 | 3,30 | 0,107 | 50 | 5,9 |
| 5G10 | 1,91 | 0,101 | 68 | 3,5 |
| 5G16 | 1,21 | 0,096 | 92 | 2,2 |

## Conversion factor for deviating ambient temperatures

| Ambient temperature | 30°C | 45°C | 40°C | 45°C | 50°C |
|---|---|---|---|---|---|
| Conversion factor | 1 | 0,96 | 0,91 | 0,87 | 0,82 |

NOTE

Current ratings when installed in open air. National regulations must be followed.

When the cable is accessible during operation by personnel, it is recommended that steps are taken to ensure that the outside jacket temperature does not exceed 50°C.

Following assumtions have been made:
2-3 core cable - single phase curcuit
4-5 core cable - three phase curcuit

Voltage drop has been determined for cos ø =0,8

Nominal values unless otherwise specified.