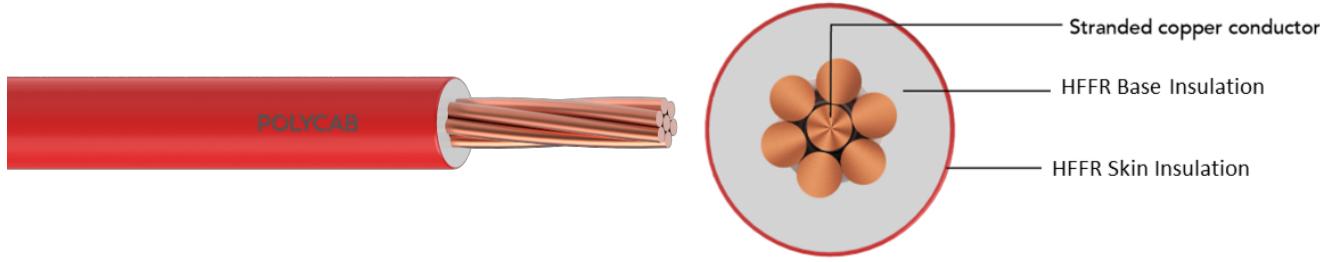


POLY CAB HFFR -04XZ-R SC

Industrial cable, 1100 V AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB HFFR-04XZ-R SC, insulated with cross linked halogen free flame retardant compound having low smoke emission and corrosive gases when exposed to fire condition. This cable is designed to use in conduit and for fixed protected installation. This is also suitable to use high rise buildings, hospitals, and offices where Smoke emission and toxic fume create a potential risk to life as well as the lifesaving equipment.

CHARACTERISTICS

Voltage Rating
1100 V

Operation Temperature
Fixed: -15°C to + 90° C

CONSTRUCTION

- Annealed stranded bare or tinned copper conductor as per IS 8130, class 2
- Insulated with cross linked halogen free flame retardant (HFFR) compound type HFI-XL 90 to IS 17048

Core Identification
Red/Black/Blue/Yellow/White/Grey.

Bending Radius
Fixed 4 x Overall Diameter
Occasional 6 x Overall Diameter

Test Voltage
3000V AC at room temperature

OUTSTANDING FEATURES

- Low Smoke
- Halogen Free
- Flame Retardant
- Highly Flexible
- Heat Resistant

STANDARD FOLLOWS

IS 8130
IS 17048
IEC 60332-1-2

COMPLIANCE

Oxygen Index 31% As per ASTM D2863
Smoke emission test < 6% As Per ASTM D2843
Acid gas Generation <0.0 As per IEC 60754-1
Test on vertical flame as per IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



**POLY CAB HFFR -04XZ-R SC
Industrial cable, 1100 V AC**

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Weight & Dimension Data

| Product Code | Nominal cross sectional area mm ² | Insulation thickness mm | Overall Diameter (Approx.) mm | Weight (Approx.) |
|----------------------|--|-------------------------|-------------------------------|------------------|
| LDIS09CLUALC001C001S | 1 | 0.7 | 2.67 | 15 |
| LDIS09CLUALC001C1.5S | 1.5 | 0.7 | 3.00 | 21 |
| LDIS09CLUALC001C2.5S | 2.5 | 0.8 | 3.62 | 32 |
| LDIS09CLUALC001C004S | 4 | 0.8 | 4.19 | 49 |
| LDIS09CLUALC001C006S | 6 | 0.8 | 4.74 | 68 |
| LDIS09CLUALC001C010S | 10 | 1.0 | 6.07 | 113 |
| LDIS09CLUALC001C016S | 16 | 1.0 | 7.13 | 171 |
| LDIS09CLUALC001C025S | 25 | 1.2 | 8.85 | 269 |
| LDIS09CLUALC001C035S | 35 | 1.2 | 10.00 | 364 |
| LDIS09CLUALC001C050S | 50 | 1.4 | 11.25 | 452 |
| LDIS09CLUALC001C070S | 70 | 1.4 | 13.53 | 707 |
| LDIS09CLUALC001C095S | 95 | 1.6 | 15.72 | 960 |
| LDIS09CLUALC001C120S | 120 | 1.6 | 17.28 | 1198 |
| LDIS09CLUALC001C150S | 150 | 1.8 | 19.34 | 1498 |
| LDIS09CLUALC001C185S | 185 | 2.0 | 21.47 | 1847 |
| LDIS09CLUALC001C240S | 240 | 2.2 | 24.30 | 2387 |
| LDIS09CLUALC001C300S | 300 | 2.4 | 27.06 | 2979 |
| LDIS09CLUALC001C400S | 400 | 2.6 | 30.84 | 3930 |
| LDIS09CLUALC001C500S | 500 | 2.8 | 34.36 | 4926 |
| LDIS09CLUALC001C630S | 630 | 2.8 | 37.90 | 6154 |

Electrical Characteristics

Current carrying capacity and Max. DC conductor resistance.

| Nominal cross-sectional area | Reference Method B (enclosed in conduit on a wall or in trunking etc.) | Reference method C (clipped direct) | Reference Method F (in free air or on a perforated cable tray etc horizontal or vertical etc.) | | | | Reference Method G (in free air) | Max. DC conductor resistance at 20°C | | |
|------------------------------|--|-------------------------------------|--|---------------------------------|--|---|--|--------------------------------------|------|--------|
| | | | Touching | | | | | | | |
| | | | 2 cables, single-phase a.c. or d.c. | 3 or 4 cables, three-phase a.c. | 2 cables single phase ac or dc flat and touching | 3 or 4 cables three phase ac flat and touching or trefoil | 2 cables, single-phase a.c. or d.c. flat | 3 cables, three-phase a.c. flat | | |
| mm ² | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | |
| 1 | 15.5 | 14 | 17 | 16 | - | - | - | - | 13 | 18.1 |
| 1.5 | 21 | 18 | 23 | 21 | - | - | - | - | 17 | 12.1 |
| 2.5 | 28 | 38 | 31 | 28 | - | - | - | - | 24 | 7.41 |
| 4 | 38 | 34 | 42 | 37 | - | - | - | - | 32 | 4.61 |
| 6 | 49 | 44 | 54 | 49 | - | - | - | - | 41 | 3.08 |
| 10 | 68 | 60 | 74 | 67 | - | - | - | - | 56 | 1.83 |
| 16 | 91 | 80 | 99 | 90 | - | - | - | - | 74 | 1.15 |
| 25 | 121 | 106 | 130 | 118 | 147 | 123 | 166 | 147 | 96 | 0.727 |
| 35 | 149 | 131 | 160 | 147 | 182 | 154 | 206 | 183 | 119 | 0.524 |
| 50 | 180 | 159 | 207 | 190 | 220 | 188 | 250 | 224 | 144 | 0.387 |
| 70 | 230 | 202 | 267 | 244 | 282 | 244 | 321 | 289 | 182 | 0.268 |
| 95 | 278 | 245 | 323 | 297 | 343 | 298 | 391 | 354 | 219 | 0.193 |
| 120 | 322 | 284 | 376 | 345 | 398 | 349 | 455 | 413 | 253 | 0.153 |
| 150 | 358 | 311 | 433 | 397 | 459 | 404 | 525 | 480 | 289 | 0.124 |
| 185 | 409 | 349 | 496 | 455 | 523 | 464 | 602 | 551 | 329 | 0.0991 |
| 240 | 480 | 410 | 586 | 537 | 618 | 552 | 711 | 654 | 386 | 0.0754 |
| 300 | 549 | 468 | 676 | 620 | 713 | 640 | 821 | 758 | 442 | 0.0601 |
| 400 | 622 | 531 | 790 | 722 | 855 | 749 | 987 | 917 | - | 0.047 |
| 500 | 713 | 606 | 901 | 823 | 986 | 861 | 1140 | 1064 | - | 0.0366 |

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| | | | | | | | | | | |
|-----|-----|-----|------|-----|------|-----|------|------|---|--------|
| 630 | 819 | 695 | 1028 | 940 | 1141 | 990 | 1323 | 1239 | - | 0.0283 |
|-----|-----|-----|------|-----|------|-----|------|------|---|--------|

The ambient temperature is 40°C.

Conductor operating temperature 90°C.

The above table is in accordance with Table 4E1A of BS 7671:2018

De-Rating Factor

De-rating factor for 90°C thermosetting insulated cable

| Air Temperature | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C | 85°C |
|------------------|------|------|------|------|------|------|------|------|------|------|------|
| De-Rating Factor | 1.04 | 1.0 | 0.95 | 0.89 | 0.84 | 0.82 | 0.77 | 0.63 | 0.55 | 0.45 | 0.32 |