# FLEXIBLE POWER CABLE

Flexible power cable

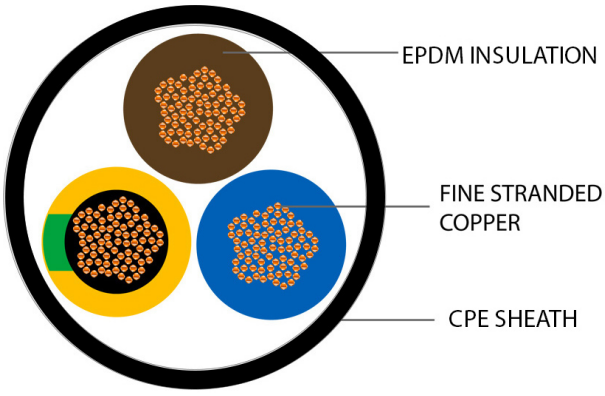
**TITLE:**
H07RN-F Rubber Flex

**CODE:**
SFX/H07RN-F-3C-1.0-RBR-BLK-1000

**DESCRIPTION:**
1000m H07RN-F 3 Core 1.0mm Flex Rubber (H07RN-F 3G1)

**SUPPLIED AS:**
Reel of 1000m

- Designed to withstand harsh environmental conditions, making them ideal for outdoor and industrial applications. Their robust construction ensures reliable performance in extreme temperatures, oil, chemicals, and mechanical stress.
- Exceptional flexibility, enabling effortless installation even in tight spaces or complex routing scenarios. The flexibility reduces installation time and labor costs while maintaining optimal cable integrity.
- Conforms to rigorous safety standards, providing peace of mind for users. With superior electrical and mechanical properties, they ensure a stable and reliable electrical connection for extended periods










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TERMS AND CONDITIONS APPLY - WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY AND COMPLETENESS OF THE INFORMATION, NO GUARANTEE IS GIVEN NOR RESPONSIBILITY TAKEN FOR ERRORS OR OMISSIONS IN THIS DATA SHEET.

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Flexible power cable

# Product Specification

25-YEAR WARRANTY

## Cable Construction

| | |
|---|---|
| Cable Construction | 3 Core |
| CPR | Eca |
| Conductor | Fine Stranded Copper |
| Conductor Diameter (mm) | 1.29 (32/0.197) |
| Overall Diameter (mm) | 9±0.3 |

## Insulation

| | |
|---|---|
| Insulation | EPDM |
| Insulation Colour | yellow/green,Blue,brown |

## Outer/Jacket Specification

| | |
|---|---|
| Jacket | CPE |
| Overall Colour | Black |
| Overall Diameter (mm) | 9±0.3 |
| Jacket Colour | Black |

## Electrical Characteristics

| | |
|---|---|
| Max Conductor DC resistance @ 20°C | 19.5 |
| Rated Voltage (V) | 450/750 |



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## MORE INFORMATION:

| EURO CLASS (ca:cable) | CLASSIFICATION CRITERIA: FIRE RATING | CLASSIFICATION CRITERIA: SFX COMMENT |
|---|---|---|
| Reaction to Fire BS EN ISO 1716 | | |
| $A_{ca}$ | Does not contribute to the fire | Due to availability, it will be almost impossible for a cable to meet Aca, so they should only be specified with extreme caution. |
| Reaction to Fire BS EN 50399 | | |
| $B1_{ca}$ | Minimum contribution to the fire | It's highly unlikely the commonly-used cables will be classified to Class B1ca. |
| $B2_{ca}$ | Combustible, low flame spread & heat release contribution to the fire | Similar to Class Cca, although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet. |
| $C_{ca}$ | Combustible, moderate flame spread & heat release | This is a more rigorous test than Class Dca, this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving. |
| $D_{ca}$ | Combustible, moderate flame spread & heat release | This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured. |
| Reaction to Fire BS EN 60332-1-2 | | |
| $E_{ca}$ | Combustible, limited fire spread of less than 425mm | A basic test for vertical flame propagation for a single insulated wire or cable using a 1 KW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke. |
| $F_{ca}$ | Combustible, fire spread of more than 425mm | Cables classified to Class Fca may have high levels of flammability due to the materials they are made of. This does not mean that the cable cannot be used, it is more likely to be used external. |

### CPR GUIDE

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**SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca**

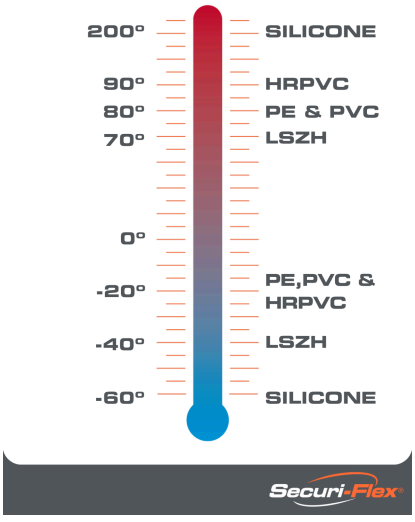
| (S) SMOKE PRODUCTION | (D) FLAMING DROPLETS | (A) SMOKE ACIDITY |
|---|---|---|
| BS EN 50399/BS EN 61034-2 | BS EN 50399 | BS EN 60754-2 |
| s1a: s1 + transmittance >=80% (BS EN 61034-2) | d0: No fall of droplets or flaming particles, times for 1200 seconds | a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3) |
| s1b: s1 + transmittance >=60% <80% (BS EN 61034-2) | d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds | a2: low acidity (conductivity <10 µS/mm & pH >4.3) |
| s1: Low production of slow propagation of smoke | | |
| s2: Intermediate production & propagation of smoke | | |
| s3: None of the above | d2: None of the above | d2: None of the above |

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SFX® The Trusted Cable Brand

Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

### OUR OPERATING TEMPERATURE RANGE GUIDE




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