

Nuhas FRC 300 Fire Alarm Cables



Nuhas Oman FRC 300 fire resistant fire alarm cables are high temperature rated screened cables to maintain circuit integrity under fire condition to keep emergency lighting, fire detection and fire alarm system circuits running to assist fire fighting operations, evacuation and protection of critical equipments.

Application:

Fire & Smoke alarms and detectors, voice communications and addressable alarm systems installed in buildings or similar applications where maintenance of power supply during a fire is required for defined period of time.

LPCB Product Approval:

Nuhas Oman FRC 300 Fire Alarm Cables are LPCB, UK approved (Certificate No. 1341b).

Cable Characteristics:

- Fire resistant to BS 6387 protocol CWZ ('resistance to fire', 'resistance to fire with water spray' & 'resistance to fire with mechanical shock'), BS EN 50200 PH120 and BS EN 50200 Annexure E ('resistance to fire with water and mechanical shock')
- Flame retardant to BS EN 60332-1
- Smoke density as per BS EN 61034-2 (Light transmittance of min 80%)
- HCL acid gas content as per BS EN 60754-1 (Max 0.5%)

Construction:

Conductor:	Insulated conductors shall be of plain solid copper class 1 to BS EN 60288. Uninsulated Circuit protective conductor (CPC) shall be of tinned annealed copper
Insulation:	The insulation shall be of cross-linked elastomeric material complying with BS EN 50363-1 type EI2 suitable for 180°C operating temperature.
Screen:	The screen shall be of longitudinally applied laminated aluminium tape of 0.075 mm min thickness, bonded to the sheath.
Sheath:	The sheath shall be of Halogen free, low smoke and flame retardant compound complying with BS 7655-6. 1 type LTS3 and colour red.

Voltage:
U₀/U : 300/500V

Cable Standard:
BS 7629-1, BS 5839-1, BS EN 50200 PH120

Conductor CSA	Diameter of conductor, nom	Insulation Thickness, nom	Outer Sheath Thickness, nom	Overall Diameter, nom	Conductor resistance at 20°C, max	Weight of cable, approx
mm ²	mm	mm	mm	mm	Ω/km	kg/km
2 Core + uninsulated circuit protective conductor						
1.0	1.13	0.6	0.9	8.0	18.1	85
1.5	1.38	0.7	0.9	9.0	12.1	95
2.5	1.78	0.8	1.0	10.0	7.41	150
3 Core + uninsulated circuit protective conductor						
1.5	1.38	0.7	0.9	9.5	12.1	120
2.5	1.78	0.8	1.0	10.5	7.41	190
Core identification						
2 Core + uninsulated circuit protective conductor				Brown and blue		
3 Core + uninsulated circuit protective conductor				Brown, black and grey		



NUHAS OMAN LLC

P O Box 186, Postal Code 124, Rusayl Industrial Estate, Sultanate of Oman
 Tel : +968-24449007, 24449247, 24449249 Fax : +968 24446790
 Email : marketing@nuhasoman.com Website:www.nuhasoman.com
 (A Member of the Al Bahja Group) AN ISO 9001: 2015 COMPANY

NO/MKT/CAT/007/Rev.1
Date 07.02.2023