



## APPLICATION

Fire Protective Signaling Circuits, Smoke detectors, Strobes/ Sirens, ull stations Voice communications, Burglar alarms, Audio, control, initiating & notification circuits, Microprocessor/ Addressable Controlled Systems. Screened two core cable suitable for Fire Detection and Alarm Systems. UL Listed E548645.

## DESIGN

Conductor: 2 x Bare Copper wire

Insulation: Polyvinyl Chloride Core 1: Brown, Core 2: Blue

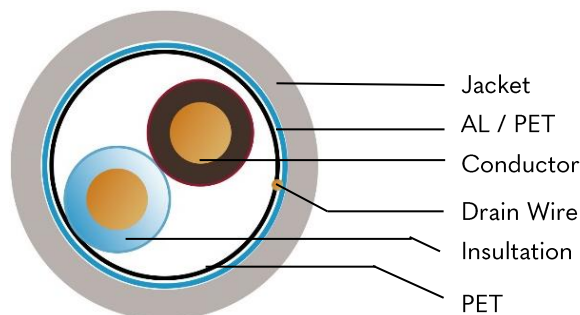
Screen: Aluminium/Polyester 100% Coverage

Drain Wire: 20 AWG Tinned Copper wire

Sheath Material: Flame-Retardant Polyvinyl Chloride  
 Colour: Red

Standard Put Up Length: 100 / 305 / 500 metres

## Cross section



## PHYSICAL CHARACTERISTICS

| Part Number                           | VFA210L             | VFA215L            | VFA225L            |
|---------------------------------------|---------------------|--------------------|--------------------|
| No of Cores                           | 2                   | 2                  | 2                  |
| Cable Size                            | 1.00mm <sup>2</sup> | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> |
| Nom. Diameter Conductor (mm)          | 1.02                | 1.29               | 1.63               |
| Nom. Radial Thickness Insulation (mm) | 0.25                | 0.25               | 0.25               |
| Nom. Diameter Drain Wire (mm)         | 0.50                |                    |                    |
| Nom. Diameter Insulation (mm)         | 1.55                | 1.80               | 2.13               |
| Nom. Radial Thickness Sheath (mm)     | 0.80                |                    |                    |
| Nom. Overall Diameter (mm)            | 4.0                 | 4.5                | 5.2                |
| Operating Temperature (°C)            | -40 to +60          |                    |                    |
| Max. Recommended Pulling Tension (N)  | 215                 | 345                | 552                |
| Min. Bend Radius (install) (mm)       | 40                  | 45                 | 52                 |
| Nominal Cable Weight (kg/km)          | 29.1                | 39.5               | 55.5               |
| Fire Retardancy                       | FPL                 | FPL                | FPL                |

## ELECTRICAL CHARACTERISTICS at 20°C

| Part Number                                    | VFA210L             | VFA215L            | VFA225L            |
|------------------------------------------------|---------------------|--------------------|--------------------|
| No of Cores                                    | 2                   | 2                  | 2                  |
| Cable Size                                     | 1.00mm <sup>2</sup> | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> |
| Max. DC Resistance Conductor (Ω/km)            | 22.7                | 15.47              | 9.36               |
| Max. DC Resistance Screen (Ω/km)               | 52.7                |                    |                    |
| Capacitance conductor to conductor (pF/m)      | 195                 | 220                | 250                |
| Capacitance cond. To other cond.+screen (pF/m) | 400                 | 430                | 480                |
| Nominal Inductance (μH/m)                      | 0.3                 | 0.5                | 0.6                |
| Max. Recommended Current at 25°C(Amps)         | 5.3                 | 11                 | 18                 |
| Max. Operating Voltage (Vrms)                  | 300                 |                    |                    |

## REFERENCE STANDARDS

UL1424

RoHS directives

## CERTIFICATES MANAGEMENT SYSTEM

ISO 9001:2015

## ORDERING INFORMATION

| Part.No     | Description                                                          |
|-------------|----------------------------------------------------------------------|
| VFA210L-100 | 2 Core 1.0MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 100 M/R |
| VFA210L-305 | 2 Core 1.0MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 305 M/R |
| VFA210L-500 | 2 Core 1.0MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 500 M/R |
| VFA215L-100 | 2 Core 1.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 100 M/R |
| VFA215L-305 | 2 Core 1.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 305 M/R |
| VFA215L-500 | 2 Core 1.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 500 M/R |
| VFA225L-100 | 2 Core 2.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 100 M/R |
| VFA225L-305 | 2 Core 2.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 305 M/R |
| VFA225L-500 | 2 Core 2.5MM <sup>2</sup> Bare Copper Fire Alarm Cable FPL – 500 M/R |