

# Fire Resistant Cable

## ERVITAL FIRE SAFE GOLD CABLE



### BS 7629-1:2015

FLAME RETARDANT CHARACTERISTIC / LOW SMOKE EMISSION / WITHOUT POISONED AND CORROSIVE GASSES /  
CIRCUIT INTEGRITY 180 MINUTES / CIRCUIT INTEGRITY WITH SHOCK PH 120 / AND WITH WATER ANNEX-E / CWZ  
ACCORDING TO BS STANDARDS

### APPLICATION

Used as a power and control cable

- In emergency lighting
- In fire detection
- In fire alarm system circuits
- In places where human life and valuable materials and equipment need to be protected

Typical application standards are:

BS 5839-1, BS 5839-9, BS 5266-1, BS 8519 (Cat-1)

### CONSTRUCTION

|               |                                                                                                                                                                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor     | EN 60228 Class 1 (RE) & 2 (RM) Electrolytic Copper                                                                                                                                                                                                          |
| Insulation    | EN 50363-1 E12 Cross-linked Ceramic Forming Polymer Compound                                                                                                                                                                                                |
| Colour Code   | 2-core : Brown, Blue or Brown, Brown<br>3-core : Brown, Black, Grey<br>4-core : Blue, Brown, Black, Grey                                                                                                                                                    |
| Stranding     | Cores shall be laid up using the sequence of colours specified<br>Copolymer laminated aluminium tape with the metallic element in contact with the uninsulated circuit protective conductor which is the same section and class as the insulated conductors |
| Screen        |                                                                                                                                                                                                                                                             |
| Sheath        | BS 7655-6.1 LTS3 type HFFR Compound                                                                                                                                                                                                                         |
| Sheath Colour | RAL 3000 Red Other applicable colors:<br>RAL 2003 Orange, RAL 9005 Black, RAL 9010 White                                                                                                                                                                    |

### TECHNICAL CHARACTERISTICS

| Operating Voltage | Min. Bending Radius | Test Voltage |             | Temperature Range                                                                                                                                                                                                  |
|-------------------|---------------------|--------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                     | Core/Core    | Core/Screen |                                                                                                                                                                                                                    |
| 300/500 V         | 6x Cable Ø          | 2000V        | 2000 V      | - 30°C ~ +70°C (Temp. for stationary condition )<br>- 5°C ~ +50°C (Temp. for moving condition )<br>* +90°C (Max.Permissible Operating Temperature at Conductor)<br>** Permissible short-circuit temperature 250 °C |

### FIRE PERFORMANCE TESTS

| Flame Retardant | Flame Propagation | Smoke Density | Corrosiveness Combustion Gases | Halogen Free | Circuit Integrity (FE180) | Circuit Integrity With Shock (PH120) | Circuit Integrity With Shock and Water spray Test | Circuit Integrity Test (CWZ) |
|-----------------|-------------------|---------------|--------------------------------|--------------|---------------------------|--------------------------------------|---------------------------------------------------|------------------------------|
| EN 60332-1-2    | EN IEC 60332-3-22 | EN 61034-2    | EN 60754-2                     | EN 60754-1   | IEC 60331-21              | EN 50200                             | EN 50200 ANNEX-E                                  | BS 6387                      |