

**M E S C**  
**Middle East Specialized Cable**  
**FIRE ALARM CABLES SHIELDED**  
**105°C (UL 1424)**



**POWER LIMITED FIRE PROTECTIVE SIGNALLING CIRCUIT CABLES 300V**

**APPLICATION**

: Can be used as a fixed wiring within buildings in accordance with NEC Article 760 Power Limited circuits.

**CONSTRUCTION:**

|                                |                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductor</b>               | Solid Annealed Bare copper as per ASTM B3                                                                                         |
| <b>Insulation</b>              | PVC rated 105°C                                                                                                                   |
| <b>Core color</b>              | BLACK & RED                                                                                                                       |
| <b>Assembly/Shielding</b>      | Color coded insulated cores assembled & shielded with an Aluminum Mylar Tape in contact with a stranded tinned copper drain wire. |
| <b>Jacket</b>                  | Extruded Red Colored PVC jacket                                                                                                   |
| <b>Printing Text (Example)</b> | TYPE FPLR (UL) E220988 2C16AWG SHIELDED 105 C MESC YEAR                                                                           |

**TECHNICAL DATA:**

|                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| <b>NEC Reference</b>                           | 760                                         |
| <b>NEC Type</b>                                | FPLR                                        |
| <b>Flame Retardance</b>                        | UL1666 Vertical Riser                       |
| <b>UV / Sunlight Resistance (Outer Sheath)</b> | Passes after 720 hrs ( UL 1581)             |
| <b>Temperature Range</b>                       | 105°C                                       |
| <b>Operating Temperature Range</b>             | -40°C to +105°C                             |
| <b>Voltage Rating</b>                          | 300 Volts                                   |
| <b>Conductor Resistance at 20°C</b>            | ≤ 13.77 Ω/Km (16AWG)<br>≤ 8.62 Ω/Km (14AWG) |
| <b>Voltage Test (UL 1424)</b>                  | 2500 V DC for 2 seconds                     |

**DIMENSIONA AND WEIGHT DETAILS:**

| MESC CODE              | NO. OF CORES | SIZE AWG | STRANDS X Ø<br>No. x mm | OUTER JACKET THICKNESS<br>mm | OVERALL DIAMETER<br>mm | APPROX WEIGHT<br>kg/km | Jacket Color |
|------------------------|--------------|----------|-------------------------|------------------------------|------------------------|------------------------|--------------|
| 4261-02C16AWG-U0RD6-00 | 2            | 16       | 1X 1.29                 | 0.84                         | 6.45                   | 58                     | Red          |
| 4261-02C16AWG-U0RD8-00 | 2            | 16       | 1X 1.29                 | 0.84                         | 6.45                   | 58                     | Red          |