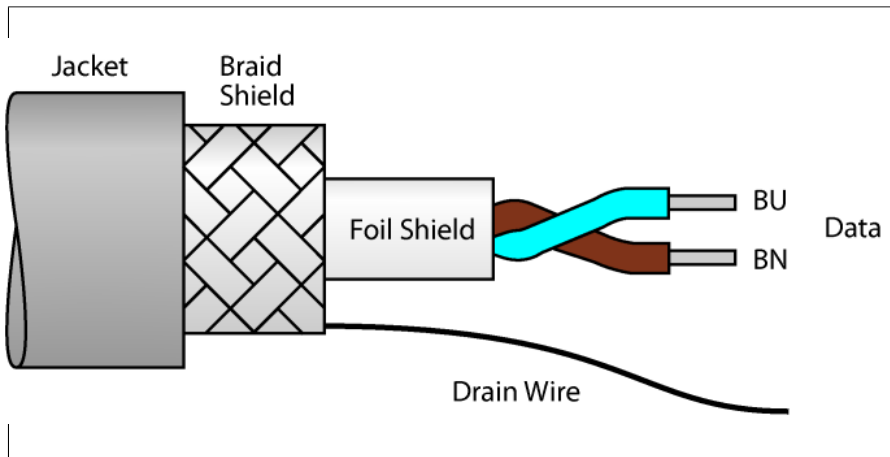


# Fieldbus cables for fieldbus systems

## According to IEC61158-2

### CABLE FBY-BU/SD-250M



- Fieldbus cable, type A, acc.to IEC 61158-2
- PVC outer jacket, blue
- Resistant to oil, gas and sunlight
- For use in areas exposed to explosion hazards classified as zone 1 and zone 2, group II, acc. to IEC 60079-14
- For indoor and outdoor installation, on racks, on trays and in conduits
- Temperature range -40...+75 °C
- Cable cross section: 18/7 AWG (0.8 mm<sup>2</sup>)
- Cable length: 250 m

|  |   |
|--|---|
| Type                                   | CABLE FBY-BU/SD-250M  |
| ID                                     | 6611110   |
| Cable diameter                         | Ø 8 mm  |
| Cable length                           | 250 m   |
| Cable jacket                           | PVC, Blue   |
| Shielding                              | Plastic-covered aluminum foil, metal side outside, makes contact with drain wire and tinned copper wire |
| Core insulation                        | PE foam with PE jacket  |
| Core colors                            | BN, BU  |
| Core cross-section                     | 2 x 0.8   |
| DC resistance (loop)                   | 43.6 Ω/km   |
| Shield resistance                      | Nom. 9 Ω/km   |
| Nom. impedance                         | 100 ± 20 Ω (31.25 kBit/s)   |
| Working capacitance                    | Nom. 60 nF/km   |
| Capacitive earthing                    | max. 2 nF/km  |
| Damping                                | max. 3.0 dB/km (with f = 39 kHz)  |
| Skew                                   | max. 1.7 µs/km (7.9 kHz -39 kHz)  |
| Nom. Inductance                        | 0.7 mH/km   |
| Voltage                                | 300 V   |
| Ambient temperature range (stationary) | -40...+75°C   |
| Ambient temperature range (In motion)  | -5...+50°C  |
| Approvals                              | UL  |
| UV resistance                          | Acc. to UL 1581, section 1200   |
| Oil-resistant                          | according to ICEA S82-552   |
| Flame-retardant                        | according to IEC 60332-3  |