

# European Installation Bus (KNX) Cable Overall Screened, Armoured, PE Sheath

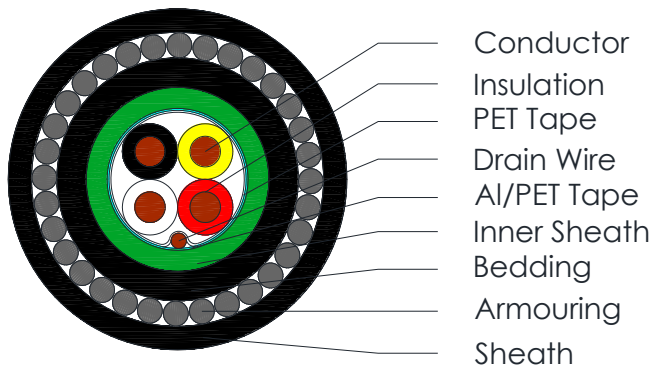


C5974, C5975

## Applications

Used for lighting control, blind control, air-conditioning, heating and security systems. KNX Certified products will communicate with each other to ensure the smooth functioning and easy expansion of systems and creates a comfortable, efficient & safe environments.

## Cross Section Drawing



## Design

| Unit                   | Properties   |
|------------------------|--|
| Conductor              | Solid Bare Copper wire   |
| Insulation             | Polyethylene (PE)<br>Core 1, Black Core 2, Red<br>Core 3, White Core 4, Yellow |
| Lay Up                 | 4 cores stranded to a quad (4 x1) or 2 cores twisted to a pair.                |
| Wrapping               | PET foil   |
| Drain Wire             | Tinned Copper Wire   |
| Screen                 | Aluminum/Polyester 100% Coverage   |
| Inner Sheath           | Halogen Free Flame Retardant (HFFR/LSZH)<br>Color: Green RAL 6018              |
| Bedding                | Polyethylene (PE)<br>Color: Black RAL 9017                                     |
| Armouring              | Galvanized Steel Wire (SWA)  |
| Outer Sheath           | UV Resistant Polyethylene (PE)<br>Color: Black RAL 9017                        |
| Standard Put Up Length | 305 or 500 metres  |

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

# European Installation Bus (KNX) Cable Overall Screened, Armoured, PE Sheath



**C5974, C5975**

## Physical Characteristics

| Part Number                           | C5975      | C5974 |
|---------------------------------------|------------|-------|
| No. of Cores                          | 4          | 2     |
| Lay Up                                | Quad       | Pair  |
| Diameter Conductor (mm)               | 0.80       |       |
| Nom. Radial Thickness Insulation (mm) | 0.3        |       |
| Nom. Diameter Insulation (mm)         | 1.45       |       |
| Drain Wire (mm)                       | 0.40       |       |
| Nom. Radial Thickness Sheath (mm)     | 1.1        |       |
| Nom. Inner sheath Diameter            | 6.1        | 5.5   |
| Nom. Overall Diameter (mm)            | 13.0       | 12.4  |
| Operating Temperature (°C)            | -10 to +70 |       |
| Min. Bend Radius (install) (mm)       | 130        | 124   |
| Cable Weight (Kg/km)                  | 300        | 260   |

## Electrical Characteristics

| Part Number                                      | C5975         | C5974 |
|--|---------------|-------|
| Max. DC Resistance Conductor ( $\Omega$ /km)     | 38.5          |       |
| Min. Insulation Resistance ( $M\Omega \cdot M$ ) | 200           |       |
| Test Voltage (Kv)                                | 2.5 for 5Min. |       |
| Operating Voltage (Vrms)                         | 450/750       |       |

## Reference Standards

|                 |
|-----------------|
| EN 50290-2      |
| ISO 4892-3      |
| RoHS Directives |