

APPLICATION

Voltan KNX/EIB cable features two twisted pairs of solid conductor with a foil screen and tinned copper drain wire in a green LSZH jacket. It is a high quality communication cable used with a variety of system products for reliable and high speed data communications. KNX/EIB cables are widely used integrated Audio/Video Intercoms and security cameras, Home automation, Lighting control and Guest room management systems.

DESIGN

Conductor: Solid Bare Copper wire

Insulation: Polythylene (PE)

Core 1: Black Core 2: Red Core 3 : White Core 4: Green

Lay Up: 1/2 twisted to a pair

Wrapping: PET Foil

Screen: Aluminium /Polyester 100% coverage

Rip Cord: Nylon Yarn

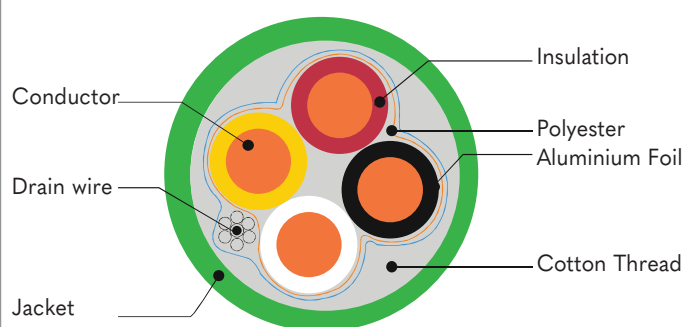
Sheath Material: Polyvinyl Chloride (PVC), (Low Smoke

Zero Halogen (LSZH) or UV Resistant Polyethylene (PE)

Color: Green RAL 6018 (PVC) / (LSZH) Black (PE)

Standard Put Up Length: 305 or 500 Metres

2 Pairs LSHF Green Technical



* Other colors, Put Up Lengths and structures can be manufactured upon request.

PHYSICAL CHARACTERISTICS

| Part Number | V2PKPV/LZ | V1PKPE/V2PKPE | V1PKPV/LZ |
|---------------------------------------|-----------|---------------|-----------|
| No. of Cores | | 2 | 1 |
| Lay Up | | Pair | |
| Diameter Conductor (mm) | | 0.80 | |
| Nom. Radial thickness Insulation (mm) | | 0.3 | 0.2 |
| Nom. Diameter Insulation (mm) | | 1.45 | 1.25 |
| Nom. Radial Thickness sheath (mm) | | 1.1 | 1 |
| Nom. Overall Diameter (mm) | | 5.5 | 5.2 |
| Sheath Material | PVC/ LSZH | PE | PVC/LSZH |
| Operating Temperature (°C) | | - 25 to + 75 | |
| Max. Pulling Tension (N) | | 25 | |
| Min. Bend Radius (install) (mm) | | 55 | |
| Nominal Cable Weight (kg/km) | 37 | 39 | 30 |

ELECTRICAL CHARACTERISTICS

| Part Number | V2PKPV / LZ | V1PKPE/V2PKPE | V1PKPV / LZ |
|-----------------------------------------------|-------------|---------------|-------------|
| Max. DC Resistance Conductor (Ω /Km) | | 37 | |
| Max. DC Loop (Ω /Km) | | 73.5 | |
| Max. Mutual Capacitance at 800 Hz (nF/Km) | | 100 | |
| Max Capacitance Unbalance at 800 Hz (pF/100m) | | 300 | |
| Inductance (μ H/m) | | 0.75 | |
| Operating Volatage (Vrms) | | 300 | |

REFERENCE STANDARD

EN 50290-2

IEC 60332 - 1 for PVC Cable

IEC 60332 - 3-24, IEC 60754 - 1 & 2

ROHS Directives

ORDERING INFORMATION

| Part No. | Description |
|----------|-----------------------------------------------------------|
| V1PKPV | Voltan KNX /EIB Cable 1 Pair, Shielded Cable, PVC Jacket |
| V1PKLZ | Voltan KNX /EIB Cable 1 Pair, Shielded Cable, LSZH Jacket |
| V1PKPE | Voltan KNX /EIB Cable 1 Pair, Shielded Cable, PE Jacket |
| V2PKPV | Voltan KNX /EIB Cable 2 Pair, Shielded Cable, PVC Jacket |
| V2PKLZ | Voltan KNX /EIB Cable 2 Pair, Shielded Cable, LSZH Jacket |
| V2PKPE | Voltan KNX /EIB Cable 2 Pair, Shielded Cable, PE Jacket |