

## APPLICATION

Voltan KNX/EIB cable features 2 cores twisted to a pair of solid conductor with a foil screen and tinned copper drain wire in a green PVC/LSZH/PE 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 for Audio/Video Intercoms, 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: Yellow

Lay Up: 2 cores twisted to a pair

Wrapping: PET Foil

Drain Wire: Tinned Copper Wire, 0.4mm

Screen: Aluminium /Polyester 100% coverage

Rip Cord: Nylon Yarn

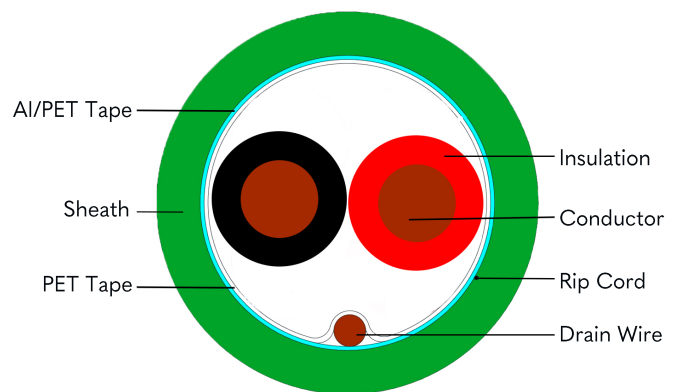
Sheath Material: Polyvinyl Chloride (PVC), (Low Smoke Zero Halogen (LSZH) or UV Resistant Polyethylene (PE)

Color: Green (RAL 6018) for PVC & LSZH, Black for PE

Standard Put Up Length: 305 or 500 Meters

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

## 1 Pair LSHF Green Technical



## PHYSICAL CHARACTERISTICS

Part Number	V1PKPV	V1PKLZ	V1PKPE
No. of Cores		2	
Lay Up		1 Pair	
Diameter Conductor (mm)		0.80	
Nom. Radial Thickness Insulation (mm)		0.3	
Nom. Diameter Insulation (mm)		1.45	
Nom. Radial Thickness Sheath (mm)		0.8	
Nom. Overall Diameter (mm)		4.6	
Sheath Material	PVC	HFFR/LSZH	PE
Operating Temperature (°C)		-25 to +75	
Max. Pulling Tension (N)		25	
Min. Bend Radius (install) (mm)		55	
Nominal Cable Weight (kg/km)	37	39	35

## ELECTRICAL CHARACTERISTICS

Part Number	V1PKPV	V1PKLZ	V1PKPE
Max. DC Resistance Conductor ( $\Omega$ /Km)		37	
Max. DC Loop ( $\Omega$ /Km)		73.5	
Max. Conductor Conductance (Ms/Km)		1	
Attenuation at 0.5-5MHz (dB/Km $\delta$ )		35-95	
Attenuation at 5-25MHz (dB/Km $\delta$ )		95-200	
Min. Insulation resistance (M $\Omega$ /Km)		100	
Max. Mutual Capacitance at 800 Hz (nF/Km)		100	
Max. Capacitance Unbalance at 800 Hz (pF/100m)		300	
Inductance ( $\mu$ H/m)		0.75	
Operating Volatage (Vrms)		300	

## REFERENCE STANDARDS

(BS) EN 50290-2

RoHS Directives

IEC 60332-1

## ORDERING INFORMATION

Part No.	Description
V1PKPV	Voltan UK KNX Cable 1 Pair, Shielded Cable, PVC Jacket
V1PKLZ	Voltan UK KNX Cable 1 Pair, Shielded Cable, LSZH Jacket
V1PKPE	Voltan UK KNX Cable 1 Pair, Shielded Cable, PE Jacket