

## 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: Yellow

Lay Up: 1/2 twisted to a pair

Wrapping: PET Foil

Screen: Aluminium /Polyester 100% coverage

Rip Cord: Nylon Yarn

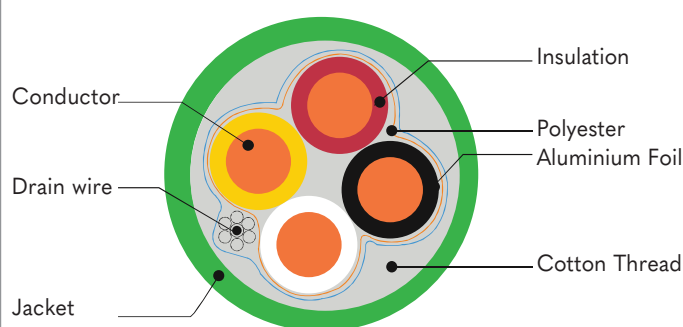
Sheath Material: Polyvinyl Chloride (PVC), (Low Smoke

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 ( $\Omega$ /Km)		37	
Max. DC Loop ( $\Omega$ /Km)		73.5	
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 STANDARD**

EN 50290-2

IEC 60332 - 1 for PVC Cable

IEC 60332 - 3-24, IEC 60754 - 1 &amp; 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