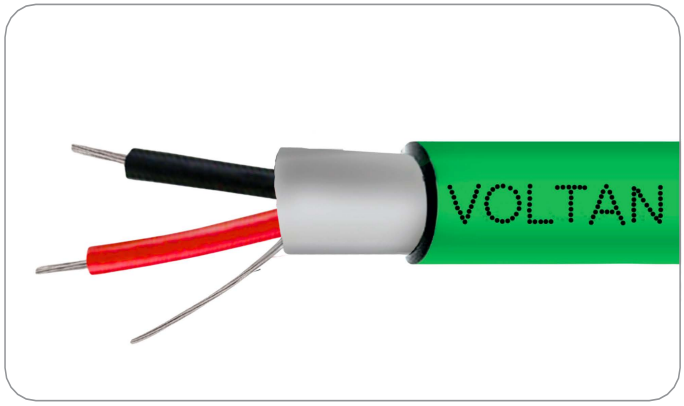
VOLTAN

POWERING CONNECTIONS • ENERGIZING SOLUTIONS

KNX / EIB Cable



APPLICATION

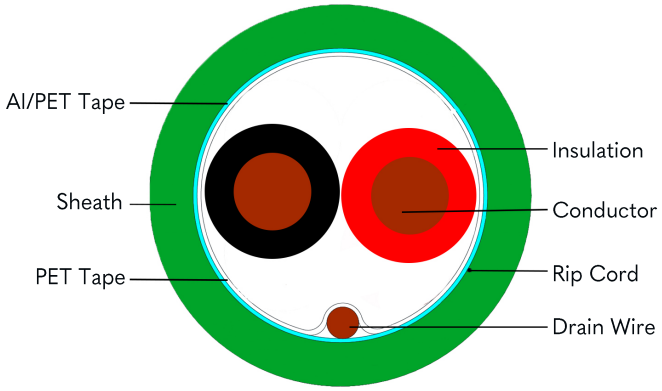
Voltan KNX/EIB cable features 2 cores twisted to a pair of solid conductor with a foil screen and tinned copper drain wire in a green PVC/LSZH/PE jacket. It is a high quality communication cable used with a variety of system products for reliable and high speed data communi-cations. KNX/EIB cables are 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
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 (RAL 9005) for PE
Standard Put Up Length: 305 Meters

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

Cross-Section Drawing



PHYSICAL CHARACTERISTICS

Part Number	V1PKPV	V1PKLZ	V1PKPE
No. of Cores		2	
Lay Up		1 Pair	
Diameter Conductor (mm)		0.80	
Nom. Radial Thickness Insultation (mm)		0.3	
Nom. Diameter Insultation (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

Voltan Technology Limited
48 Ravenor Park Road, Greenford, UB6 9QY, London, United Kingdom.

ELECTRICAL CHARACTERISTICS

Part Number	V1PKPV	V1PKLZ	V1PKPE
Max. DC Resistance Conductor (Ω /Km)		37	
Max. DC Loop (Ω /Km)		73.5	
Max. Conductor Conductance (Ms/Km)		1	
Attenuation at 0.5-5MHz (dB/Km6)		35-95	
Attenuation at 5-25MHz (dB/Km6)		95-200	
Min. Insultation resistance (MΩ /Km)		100	
Max. Mutual Capacitance at 800 Hz (nF/Km)		100	
Max. Capacitance Unbalance at 800 Hz (pF/100m)		300	
Inductance (µH/m)		0.75	
Operating Volatage (Vrms)		300	

REFERENCE STANDARDS

IEC 60332-1-2 IEC 60754-2, IEC 61034-2
RoHS Directives
(BS) EN 50290-2, EN 60228, EN 50288, EN 60811

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