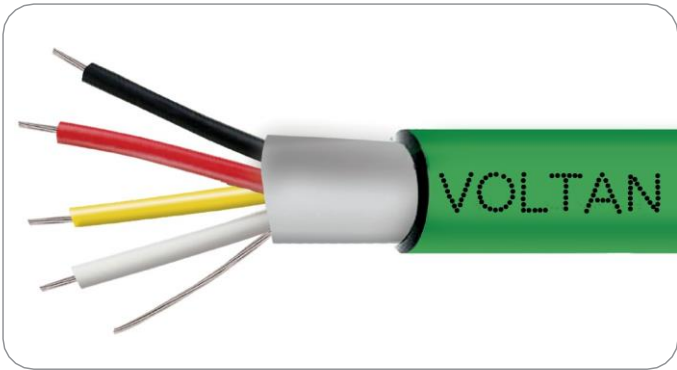




APPLICATION

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: 4 cores stranded to a quad (2pr) or 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

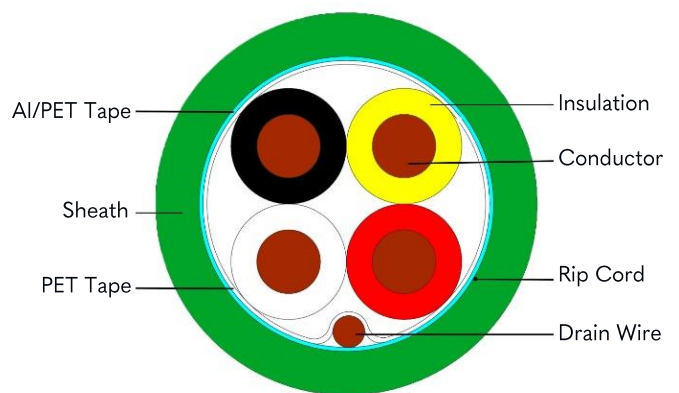
Sheath Material: Polyvinyl Chloride (aPVC), (Low Smoke Zero Halogen (LSZH) or UV Resistant Polyethylene (PE)

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

Standard Put Up Length: 305 or 500 Meters

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

2 Pairs LSHF Green Technical



PHYSICAL CHARACTERISTICS

Part Number	V2PKPV	V2PKLZ	V2PKPE	V1PKPV	V1PKLZ	V1PKPE
No. of Cores	4			2		
Lay Up	Quad (2Pair)			Pair		
Diameter Conductor (mm)	0.80					
Nom. Radial Thickness Insultation (mm)	0.3					
Nom. Diameter Insultation (mm)	1.45					
Nom. Radial Thickness Sheath (mm)	1.1					
Nom. Overall Diameter (mm)	6.1			5.5		
Sheath Material	PVC	HFFR/ LSZH	PE	PVC	HFFR/ LSZH	PE
Operating Temperature (°C)	-25 to +75					
Max. Pulling Tension (N)	50			25		
Min. Bend Radius (install) (mm)	61			55		
Nominal Cable Weight (kg/km)	51	53	46	37	39	35

ELECTRICAL CHARACTERISTICS

Part Number	V2PKPV	V2PKLZ	V2PKPE	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/Km)			35-95			
Attenuation at 5-25MHz (dB/Km)			95-200			
Min. Insulation resistance (M Ω /Km)			100			
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 & UL 1581 for PVC Cable

IEC 60332 - 3-24, IEC 60754 - 1& 2, IEC 61034 & UL 1685 for HFFR / LSZH Cable

ROHS Directives

ORDERING INFORMATION

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