

APPLICATION

Voltan KNX/EIB cable features two twisted pairs/star quad 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: 4 cores stranded to a quad (2pr)

Wrapping: PET Foil

Drain Wire: Tinned Copper Wire, 0.4mm

Screen: Aluminium /Polyester 100% coverage

Rip Cord: Nylon Yarn

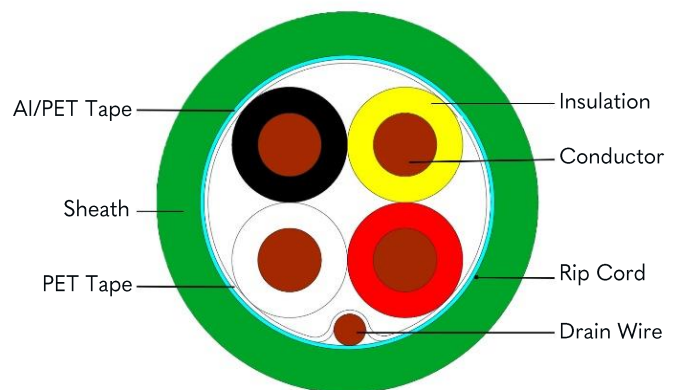
Sheath Material: Polyvinyl Chloride (PVC), (Low Smoke Zero Halogen (LSZH) or UV Resistant Polyethylene (PE)

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.

2 Pairs LSHF Green Technical



PHYSICAL CHARACTERISTICS

Part Number	V2PKPV	V2PKLZ	V2PKPE
No. of Cores		4	
Lay Up		Quad (2Pair)	
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	
Sheath Material	PVC	HFFR/LSZH	PE
Operating Temperature (°C)		-25 to +75	
Max. Pulling Tension (N)		50	
Min. Bend Radius (install) (mm)		61	
Nominal Cable Weight (kg/km)	51	53	46

Part Number	V2PKPV	V2PKLZ	V2PKPE
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 δ)		35-95	
Attenuation at 5-25MHz (dB/Km δ)		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

IEC 60332 - 3-24, IEC 60754 - 1 & 2, IEC 61034

ROHS Directives

ORDERING INFORMATION

Part No.	Description
V2PKPV	KNX Cable 2 Pair, Shielded Cable, PVC Jacket
V2PKLZ	KNX Cable 2 Pair, Shielded Cable, LSZH Jacket
V2PKPE	KNX Cable 2 Pair, Shielded Cable, PE Jacket