

European Installation Bus (KNX) Cable Overall Screened, PVC, HFFR/LSZH & PE Sheath

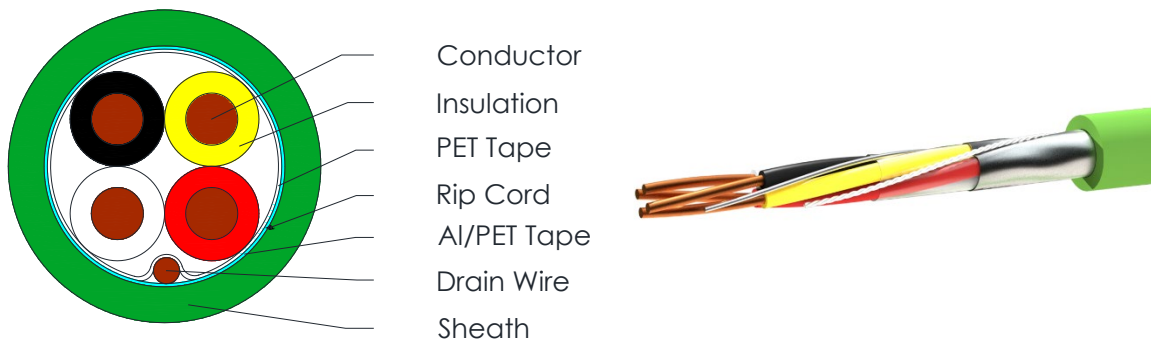


C1217, C1218, C1219, C1220, C1900, C1901

Applications

Screened cable used in KNX/EIB (European Installation Bus) applications.

Cross Section Drawing



- Conductor
- Insulation
- PET Tape
- Rip Cord
- Al/PET Tape
- Drain Wire
- Sheath

Design

Unit	Properties
Conductor	Solid Bare Copper wire
Insulation	Polyethylene (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	Aluminum/Polyester 100% Coverage
Rip Cord	Nylon Yarn
Sheath Material	Polyvinyl Chloride (PVC), Halogen Free Flame Retardant (HFFR/LSZH) or UV Resistant Polyethylene (PE) Color: Green RAL 6018 (PVC & HFFR/LSZH) Black (PE)
Standard Put Up Length	305 or 500 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C1217	C1218	C1900	C1219	C1220	C1901
No. of Cores	4			2		
Lay Up	Quad (2pair)			Pair		
Diameter Conductor (mm)	0.80					
Nom. Radial Thickness Insulation (mm)	0.3					
Nom. Diameter Insulation (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	C1217	C1218	C1900	C1219	C1220	C1901
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 Voltage (Vrms)	300					

Reference Standards

EN 50290-2
IEC 60332-1& UL1581 for PVC Cable
IEC 60332-3-24, IEC 60754-1&-2, IEC 61034 &UL 1685 for HFFR/LSZH Cable
RoHS Directives