

KNX CERTIFIED EUROPEAN INDUSTRY BUS CABLES



APPLICATION

KNX Cable is designed for communication in building management systems and can also be used to control lighting, air conditioning, blinds, heating, audio, and white goods for the future proof control of buildings.

CABLE STANDARDS

IEC60332-1
ISO/IEC 14543-3
EN-13602-2002
CENELEC EN 50090
CEN EN 13321-1

CONSTRUCTION

Conductor: Solid Copper laid in pairs or Quad
Fillers: Cotton Rope
Overall Tape: Clear Polyester
Drain Wire: Tinned Copper
Overall Screen: Aluminium/Polyester Foil
Sheath: Low Smoke Zero Halogen (LSZH)
Sheath Colour: ■ Green

CHARACTERISTICS

Voltage Rating: 300 Volts
Temperature Limits: Fixed: -20°C to +70°C
Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION
Pair 1: ■ Red ■ Black
Pair 2: ■ Yellow ■ White
Drain: ■ Grey

Should not be installed at temperatures below 0°C

KNX EUROPEAN INDUSTRY BUS CABLES - DIMENSIONS

CCCL CODE	NUMBER OF CONDUCTORS	NUMBER OF PAIRS	STRANDING (MM)	WEIGHT (Kg/Km)	OVERALL DIAMETER (MM)
KNX1PAIRGN	2 PLUS DRAIN WIRE	1	1X2X1/0.8	62	6.3
KNX2PAIRGN	4 PLUS DRAIN WIRE	2	2X2X1/0.8	65	6.8
KNX1QUADGN	4 PLUS DRAIN WIRE	4 CORE TWISTED QUAD	1X4X1/0.8MM	70	7.3

KNX EUROPEAN INDUSTRY BUS CABLES- ELECTRICAL CHARACTERISTICS

CCCL CODE	CONDUCTOR DCR	SHIELD DCR	CONDUCTOR TO CONDUCTOR CAPACITANCE	CONDUCTOR TO SHIELD CAPACITANCE	INDUCTANCE	MAX RESISTANCE OF CONDUCTOR AT 20°C
KNX1PAIRGN	37.4Ω/KM	30.5Ω/KM	100 pF/M	300 pF/M	0.557 μH/M	37.5
KNX2PAIRGN	37.4Ω/KM	30.5Ω/KM	100 pF/M	300 pF/M	0.557 μH/M	37.5
KNXQUADGN	37.4Ω/KM	30.5Ω/KM	100 pF/M	300 pF/M	0.557 μH/M	36.5

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