ttcables
ELECTRIC CABLE WORKS

Streetlight Twin 0,6/1kV AL PVC

XLPE insulated and PVC sheathed power cable with Al conductors, rated voltage 0,6/1 kV

APPLICATION

Power distribution cable designed for roadway and street lighting, entry point installation, and other general outdoor applications (UV-resistant). Each phase is individually insulated and sheathed. The cable is suitable for direct burial in soil and may also be installed in water, provided it is not subjected to additional mechanical stress. When laying at a lower temperatures than 0 °C degrees Celsius, care must be taken to avoid damaging the outer sheath. It is especially important to prevent any mechanical impact at temperatures below 0 °C. For installations at temperatures below -10 °C, the cable must be preheated prior to laying. If the cable is cut and not installed immediately, each phases must be properly sealed to prevent moisture and water penetration.
Expected life time: 50 years provided proper installation, load and ambient temperature.
CENELEC code: N01XV-AR

TECHNICAL CHARACTERISTICS

Rated voltage (Uo/U): 0,6/1 kV
Test voltage: 4 kV AC 50 Hz, 5 min.
Min. temp. for cable laying: -10°C
Min. outer temp., fixed installation: -40°C
Max. outer temp., fixed installation: 70°CMax.
conductor operating temperature: 90°C
Max. short-circuit temperature: 250°C
Min. bending radius: 6D, D = outer diameter

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
Insulation: XLPE compound
Outer Sheath: PVC compound, UV resistant

STANDARD

HD 603-5J (chosen parts)- construction
HD 604-5D (chosen parts)- construction
SS 424 14 18 (chosen parts)- construction
EN 60332-1-2- Flame retardant

CORE IDENTIFICATION

Color coding is acc. to HD 308

CERTIFICATION

CE
IEC International Electrotechnical Commission
REACH COMPLIANT
RoHS compliant

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NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	NOM. THICKNESS OF INSULATION	NOM. THICK-NESS OF OUTER SHEATH	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	AL WEIGHT	CABLE WEIGHT (APPROX.)
mm²		**Ω/km**	**mm**	**mm**	**A**	**A**	**kg/km**	**kg/km**
5G25	AFR	1,200	0,90	1,80	106	114	363	743
5G50	AFR	0,641	1,00	1,80	161	162	725	1232

ER = Copper solid round
FR = Copper stranded round
FV = Copper stranded sectorshaped
AFR = Aluminium stranded round
AFV = Aluminium stranded sectorshaped