

SE-NIXE-AS 0,6/1 kV

Halogen-free power cable for installation outdoors and water



DESCRIPTION

Halogen-free, XLPE-insulated power cable with durable PE-sheath. Designed for fixed installation in ground or water outside. The robust PE-sheath means it is very suitable for plowing and has very low water absorption with good protection against water diffusion. Common applications include street lighting, service cable and standard 1 kV distribution cable. Not suitable in hazardous areas or when flame protection is needed. Equipped with a strong rip cord for safe and easy removal of outer sheath.

Synonyms

AXL 1 kV (class 2) AXL

STANDARDS, CERTIFICATIONS AND APPROVALS



SS 424 14 18

CENELEC HD 603 Part 5 Section O

IEC 60228

Construction standard

Harmonized construction standard

Construction standard

CABLE CONSTRUCTION

Rated voltage U₀/U (Um)

0,6/1 (1,2) kV

Conductor material

Aluminium

Conductor surface

Bare

Core insulation material

XLPE

Core identification (acc. HD 308 S2)

Yes

Material outer sheath

Polyethylene (PE)

Cable shape

Round

Cable marking example

SE-NIXE-AS 4G240 0,6/1 kV DRAKA "Date and time", "meter marking"

FIRE AND CHEMICAL PROPERTIES

Flame retardant

No

Halogen free

acc. IEC/EN 60754-1/2

APPLICATION

Max. conductor temperature	90
Permitted cable outer temperature after assembling without vibration (min) [°C]	-60
Permitted cable outer temperature after assembling without vibration (max) [°C]	60
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	40
Underground installation	Yes
Bending radius (rule)	Fixed: 8 x D At laying: 12 x D At ploughing: 8 x D

PRODUCT DATA

Item name	External article code	SAP code	Cable weight [kg/km]	Packaging
SE-NIXE-AS 4G50	0057940	20386766-0	754	
SE-NIXE-AS 4G50 T500	0057945	20386766	754	K12
SE-NIXE-AS 4G95	0057950	20386864-0	1,359	
SE-NIXE-AS 4G95 T500	0057955	20386864	1,359	K14
SE-NIXE-AS 4G150	0057960	20386865-0	2,058	
SE-NIXE-AS 4G150 T500	0057965	20386865	2,058	K18
SE-NIXE-AS 4G240	0057970	20386866-0	3,349	
SE-NIXE-AS 4G240 T500	0057975	20386866	3,349	K22
SE-NIXE-AS 4G300	0057980	20408000-0	4,200	
SE-NIXE-AS 4G300 T500	0057985	20408000	4,200	K22

TECHNICAL DATA

Product name	Conductor category	Shape of conductor	Core colours	Outer diameter [mm]
SE-N1XE-AS 4G50	Class 2 = stranded	Sector-shaped	Green/yellow, brown, black, grey	26
SE-N1XE-AS 4G95	Class 2 = stranded	Sector-shaped	Green/yellow, brown, black, grey	34
SE-N1XE-AS 4G150	Class 2 = stranded	Sector-shaped	Green/yellow, brown, black, grey	38
SE-N1XE-AS 4G240	Class 2 = stranded	Sector-shaped	Green/yellow, brown, black, grey	49
SE-N1XE-AS 4G300	Class 2 = stranded	Sector-shaped	Green/yellow, brown, black, grey	57

Nominal values unless otherwise specified.

ELECTRICAL DATA

Product name	Colour outer sheath	Current carrying capacity [A]	Conductor resistance at 20° C [Ohm/km]	Operating self inductance [mH/km]	Short circuit current conductor (Isec) [kA]	Inductive Reactance (at 50Hz) [Ohm/km]
SE-N1XE-AS 4G50	Black	112	0.641	0.23	4.7	0.07
SE-N1XE-AS 4G95	Black	164	0.32	0.23	8.9	0.07
SE-N1XE-AS 4G150	Black	210	0.206	0.23	14.2	0.07
SE-N1XE-AS 4G240	Black	272	0.125	0.22	22.7	0.07
SE-N1XE-AS 4G300	Black	308	0.1	0.22	28.3	0.07

Current carrying capacity from table 52C.2 in SS 436 40 00, utgåva 3 (installatoin in ground, ground temperature 20C, three loaded conductors, Thermal resistance 2,5 k m / W, depth 0,7m, conductor temperature 90 C, no adjacent cables). Short circuit value for conductor with initial temperature 90C,