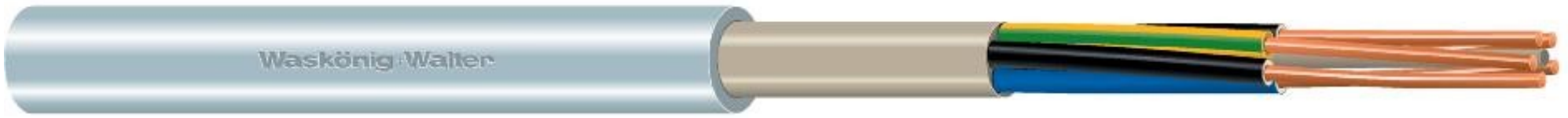
Power cable

N1XZ1

Power cable, XLPE insulated, copper conductor, halogen free

0.6/1 kV



based upon VDE0276-604 but with reduced wallthicknesses.. For fixed installation indoors, in air and in concrete. These cables are also suitable for outdoor use, provided they are protected from direct sunlight. Laying in the ground or in water is not permitted.

Characteristics	Properties	Unit
Conductor material	Copper	
Conductor surface	Bare	
Shape of conductor	Round	
Core identification according to HD 308 S2	Yes	
Core identification	Colour	
Laminated sheath	No	
Fibre optic elements	No	
Protective conductor	Yes	
Inner semi-conducting layer	No	
Outer semi-conducting layer	No	
Screen	No	
Concentric conductor	None	
Armouring	No	
Material outer sheath	Polyolefin	

Waskönig + Walter Kabel-Werk GmbH u. Co. KG
Ostermoorstraße 77, 26683 Saterland
Phone: +49 4498 88-0 | Fax: +49 4498 88-900
https://www.waskoenig.de

Status: 24.11.2026
Subject to technical alterations

Characteristics	Properties	Unit
Specification material outer sheath	Polyethylene (PE)	
Colour outer sheath	Grey	
Conductive coating	No	
Longitudinal water blocking screen	No	
Reaction-to-fire according to EN 13501-6: Class	Eca	
Halogen free (acc. EN 60754-1/2)	Yes	
Flame retardant	In accordance with IEC/EN 60332-1-2	
Low smoke (acc. EN 61034-2)	Yes	
Max. conductor temperature	90	°C
Permitted cable outer temperature during assembling/handling	-5 <=> 70	°C
Permitted cable outer temperature after assembling without vibration	-40 <=> 70	°C
Nominal voltage U0	0.6	kV
Nominal voltage U	1	kV
max. short circuit temperature	250	°C
Insulation	XLPE (VPE)	
Minimum bending radius	8	x Außen-Ø
Core diameter	200	mm

Product						Packaging						
Number of cores	Nominal cross section conductor (in mm²)	Conductor category	Longitudinal water blocking conductors	Outer diameter approx. (in mm)	Weight (in kg/km)	Packing	Individual length (in m)	Bruttogewicht pro Paletteinheit	Height	Outer diameter	pallet unit	Net weight (in kg)
1	2.5	Class 1 = solid	Yes	5	42.79	Ring	100	579.07	61	285	13,000	4
1	6	Class 1 = solid	Yes	7	84.39	Ring, Drum	Cut length					84

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1	6	Class 1 = solid	Yes	7	84.39	Ring	100	529.14	53	350	6,000	8
1	10	Class 2 = stranded	No	9	136.11	Ring, Drum	Cut length					144
1	16	Class 2 = stranded	No	10	194.52	Ring, Drum	Cut length					203
1	16	Class 2 = stranded		10	194.52	Ring, Drum	Cut length					203
12	1.5	Class 1 = solid	Yes	14	282.73	Ring, Drum	Cut length					283
12	1.5	Class 1 = solid	Yes	14	282.73	Ring	100	531.71	144	430	1,800	28

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