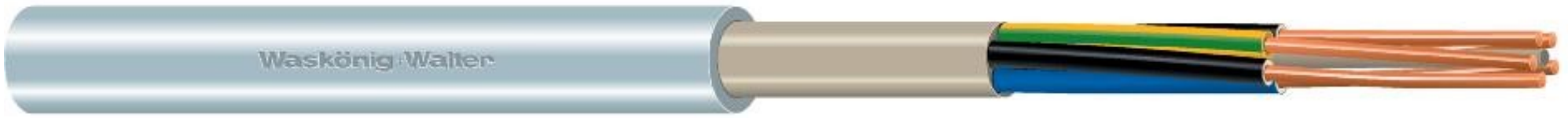
Waskönig + Walter

Power cable

N1XZ1 Dca

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	
Inner semi-conducting layer	No	
Outer semi-conducting layer	No	
Screen	No	
Concentric conductor	None	
Armouring	No	
Material outer sheath	Polyolefin	
Specification material outer sheath	Polyethylene (PE)	

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Characteristics	Properties	Unit
Colour outer sheath	Grey	
Conductive coating	No	
Longitudinal water blocking screen	No	
Reaction-to-fire according to EN 13501-6: Class	Dca	
Reaction-to-fire according to EN 13501-6: Smoke production	s2	
Reaction-to-fire according to EN 13501-6: Flaming droplets/particles	d2	
Reaction-to-fire according to EN 13501-6: Acidity	a1	
Halogen free (acc. EN 60754-1/2)	Yes	
Flame retardant	In accordance with IEC/EN 60332-3-24	
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

Product								Packaging						
Number of cores	Nominal cross section conductor (in mm²)	Conductor category	Core diameter	Longitudinal water blocking conductors	Outer diameter approx. (in mm)	Protective conductor	Weight (in kg/km)	Packing	Individual length (in m)	Bruttogewicht pro Paletteinheit	Height	Outer diameter	pallet unit	Net weight (in kg)
1	10	Class 2 = stranded		No	9	Yes	149.66	Ring, Drum	Cut length					158

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1	16	Class 2 = stranded	200	No	10	Yes	214.95	Ring	100	1,099.3	99	400	4,800	22
2	1.5	Class 1 = solid		Yes	7	No	70.18	Ring, Drum	Cut length					70
2	1.5	Class 1 = solid	200	Yes	7	No	70.18	Ring	100	528.1	54	370	7,200	7
3	1.5	Class 1 = solid		Yes	8	Yes	85.27	Ring, Drum	Cut length					85
3	1.5	Class 1 = solid		Yes	8	Yes	85.27	Ring, Drum	Cut length					85
3	1.5	Class 1 = solid		Yes	8	Yes	85.27	Ring	50	380.93			4,200	4
3	1.5	Class 1 = solid	200	Yes	8	Yes	85.27	Ring	100	687.91	52	390	7,800	9
3	1.5	Class 1 = solid	200	Yes	8	Yes	85.27	Ring	100	687.91	52	390	7,800	9
3	1.5	Class 1 = solid	150	Yes	8	Yes	85.27	Drum	300	366.97	419	410	3,600	26
3	1.5	Class 1 = solid	202	Yes	8	Yes	85.27	Drum	500	564.672	440	400	6,000	43
3	1.5	Class 1 = solid	150	Yes	8	Yes	85.27	Drum	500	571.62	419	410	6,000	43
3	2.5	Class 1 = solid	200	Yes	9	Yes	120.68	Ring	100	529.66	69	390	4,200	12
3	2.5	Class 1 = solid	200	Yes	9	Yes	120.68	Ring	100	746.88	69	390	6,000	12
3	2.5	Class 1 = solid	202	Yes	9	Yes	120.68	Drum	500	399.966	440	480	3,000	60
3	2.5	Class 1 = solid	150	Yes	9	Yes	120.68	Drum	500	784.08	419	410	6,000	60
4	1.5	Class 1 = solid		Yes	8	Yes	103.43	Ring, Drum	Cut length					103
4	1.5	Class 1 = solid	200	Yes	8	Yes	103.43	Ring	100	767.5	62	390	7,200	10
4	1.5	Class 1 = solid	150	Yes	8	Yes	103.43	Drum	300	432.35	419	410	3,600	31
4	6	Class 2 = stranded		No	13	No	320.19	Ring, Drum	Cut length					320
4	6	Class 2 = stranded	202	No	13	No	320.19	Drum	250	518.216	440	480	1,500	80
4	10	Class 2 = stranded		No	17	No	567.72	Ring, Drum	Cut length					577

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N1XZ1 Dca

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Subject to technical alterations

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Product								Packaging						
Number of cores	Nominal cross section conductor (in mm²)	Conductor category	Core diameter	Longitudinal water blocking conductors	Outer diameter approx. (in mm)	Protective conductor	Weight (in kg/km)	Packing	Individual length (in m)	Bruttogewicht pro Paletteinheit	Height	Outer diameter	pallet unit	Net weight (in kg)
4	10	Class 2 = stranded	325		16	No	567.72	Drum	250	680.14	576	700	1,000	144
4	16	Class 2 = stranded		No	19	No	834.86	Ring, Drum	Cut length					784
5	1.5	Class 1 = solid		Yes	9	Yes	125.36	Ring, Drum	Cut length					125
5	1.5	Class 1 = solid		Yes	9	Yes	125.36	Ring	50	549.31			4,200	6
5	1.5	Class 1 = solid	200	Yes	9	Yes	125.36	Ring	100	925.39	76	390	7,200	13
5	1.5	Class 1 = solid	200	Yes	9	Yes	125.36	Ring	100	925.39	76	390	7,200	13
5	1.5	Class 1 = solid	150	Yes	9	Yes	125.36	Drum	300	511.3	419	410	3,600	38
5	1.5	Class 1 = solid	202	Yes	9	Yes	125.36	Drum	500	414.006	440	480	3,000	63
5	1.5	Class 1 = solid	150	Yes	9	Yes	125.36	Drum	500	814.56	419	450	6,000	63
5	2.5	Class 1 = solid		Yes	10	Yes	183.65	Ring, Drum	Cut length					184
5	2.5	Class 1 = solid		Yes	10	Yes	183.65	Ring	50	794.13			4,200	9
5	2.5	Class 1 = solid	200	Yes	10	Yes	183.65	Ring	100	794.13	104	390	4,200	18
5	2.5	Class 1 = solid	200	Yes	10	Yes	183.65	Ring	100	794.13	104	390	4,200	18
5	2.5	Class 1 = solid	260	Yes	10	Yes	183.65	Drum	500	407.7	419	600	2,000	92
5	2.5	Class 1 = solid		Yes	10	Yes	183.65	Drum	500	390.1			2,000	92
5	4	Class 1 = solid		Yes	12	Yes	263.66	Ring, Drum	Cut length					264
5	4	Class 1 = solid		Yes	12	Yes	263.66	Ring, Drum	Cut length					264
5	4	Class 1 = solid	200	Yes	12	Yes	263.66	Ring	100	971.98	133	390	3,600	26
5	4	Class 1 = solid	202	Yes	12	Yes	263.66	Drum	200	354.316	440	480	1,200	53
5	4	Class 1 = solid	325	Yes	12	Yes	263.66	Drum	500	630.12	576	700	2,000	132
5	6	Class 1 = solid		Yes	13	Yes	374.39	Ring, Drum	Cut length					374

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Product								Packaging						
Number of cores	Nominal cross section conductor (in mm²)	Conductor category	Core diameter	Longitudinal water blocking conductors	Outer diameter approx. (in mm)	Protective conductor	Weight (in kg/km)	Packing	Individual length (in m)	Bruttogewicht pro Paletteinheit	Height	Outer diameter	pallet unit	Net weight (in kg)
5	6	Class 2 = stranded		No	14	Yes	388.04	Ring, Drum	Cut length					388
5	6	Class 1 = solid	200	Yes	13	Yes	374.39	Ring	50	921.34	90	390	2,400	19
5	6	Class 1 = solid	200	Yes	13	Yes	374.39	Ring	100	921.34	139	430	2,400	37
5	6	Class 2 = stranded	202	No	14	Yes	388.04	Drum	250	619.986	440	480	1,500	97
5	6	Class 2 = stranded	325	No	14	Yes	388.04	Drum	500	878.88	576	700	2,000	194
5	10	Class 2 = stranded		No	18	Yes	623.8	Ring, Drum	Cut length					641
5	10	Class 2 = stranded		No	18	Yes	624.69	Ring, Drum	Cut length					641
5	10	Class 2 = stranded	325	No	18	Yes	623.8	Drum	250	180.15	576	700	250	160
5	10	Class 2 = stranded	630	No	17	Yes	623.8	Drum	1500	1,040.9	880	1,250	1,500	961
5	16	Class 2 = stranded		No	20	Yes	932.24	Ring, Drum	Cut length					950
5	16	Class 2 = stranded		No	20	Yes	931.92	Ring, Drum	Cut length					950
5	16	Class 2 = stranded		No	20	Yes	932.24	Ring, Drum	Cut length					950
5	16	Class 2 = stranded		No	20	Yes	932.24	Ring, Drum	Cut length					950
6	1.5	Class 1 = solid		Yes	11	Yes	166.54	Ring, Drum	Cut length					167
6	1.5	Class 1 = solid		Yes	11	Yes	166.54	Ring	100	722.27			4,200	17
7	1.5	Class 1 = solid		Yes	11	Yes	177.29	Ring, Drum	Cut length					177
7	1.5	Class 1 = solid		Yes	11	No	177.29	Ring, Drum	Cut length					177
7	1.5	Class 1 = solid	200	Yes	11	Yes	177.29	Ring	100	767.42	111	390	4,200	18
7	2.5	Class 1 = solid		Yes	12	Yes	251.78	Ring, Drum	Cut length					252
8	1.5	Class 1 = solid		Yes	11	Yes	199.32	Ring, Drum	Cut length					199
8	1.5	Class 1 = solid		Yes	11	Yes	199.32	Ring, Drum	Cut length					199

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8	1.5	Class 1 = solid	200	Yes	11	Yes	199.32	Ring	100	740.35	128	390	3,600	20
10	1.5	Class 1 = solid	200	Yes	13	Yes	245.08	Ring	100	610.99	126	430	2,400	25

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