

Power cable ≥ 1 kV, for permanent installation

N1XZ1 Dca

Power cable, XLPE insulated, copper conductor, halogen free

0.6/1 kV



based upon VDE0276-604.. 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	
Insulation	XLPE (VPE)	
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	

Characteristics	Properties	Unit
Material outer sheath	Polyolefin	
Specification material outer sheath	Polyethylene (PE)	
Colour outer sheath	Grey	
Conductive coating	No	
Longitudinal water blocking screen	No	
Reaction-to-fire class according to EN 13501-6	Dca	
Smoke development class according to EN 13501-6	s2	
Euro class flaming droplets/particles according to EN 13501-6	d2	
Euro class acidity according to EN 13501-6	a1	
Halogen free (acc. EN 60754-1/2)	Ja	
Flame retardant	In accordance with EN 60332-3-24	
Low smoke (acc. EN 61034-2)	Ja	
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

Bruttogewicht pro Paletteinheit	Conductor category	Longitudinal water blocking conductors	Metal number	Minimum bending radius	Nominal cross section conductor	Number of cores	Outer diameter approx.	Paletteinheit	Protective conductor	Individual length	Net weight	Packing
	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm²	3 Stck	7 mm		Ja	Cut length	78 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	2.5 mm²	3 Stck	8 mm	3.000 m	Ja	500 m	56 kg	Drum

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375,846 kg	Class 1 = solid	Ja	Copper 58	12 x Außen-Ø	1.5 mm ²	4 Stck	8 mm	3.000 m	Ja	Cut length	96 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 96	12 x Außen-Ø	2.5 mm ²	4 Stck	9 mm	3.000 m	Ja	Cut length	140 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	3.000 m	Ja	Cut length	117 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm ²	5 Stck	10 mm	3.000 m	Ja	Cut length	175 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 192	12 x Außen-Ø	4 mm ²	5 Stck	11 mm	3.000 m	Ja	Cut length	253 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 288	12 x Außen-Ø	6 mm ²	5 Stck	13 mm	3.000 m	Ja	Cut length	362 kg	Ring, drum
375,846 kg	Class 2 = stranded	No	Copper 480	12 x Außen-Ø	10 mm ²	5 Stck	17 mm	3.000 m	Ja	Cut length	624 kg	Ring, drum
375,846 kg	Class 2 = stranded	No	Copper 768	12 x Außen-Ø	16 mm ²	5 Stck	20 mm	3.000 m	Ja	Cut length	931 kg	Ring, drum
375,846 kg	Class 1 = solid	Ja	Copper 101	12 x Außen-Ø	1.5 mm ²	7 Stck	10 mm	3.000 m	Ja	Cut length	167 kg	Ring, drum
633,230 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	7.800 m	Ja	100 m	8 kg	Ring
495,890 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	2.5 mm ²	3 Stck	8 mm	4.200 m	Ja	100 m	11 kg	Ring
866,060 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	7.200 m	Ja	100 m	12 kg	Ring
753,730 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm ²	5 Stck	10 mm	4.200 m	Ja	100 m	17 kg	Ring
753,730 kg	Class 1 = solid	Ja	Copper 86.4	12 x Außen-Ø	1.5 mm ²	6 Stck	10 mm	4.200 m	Ja	Cut length	157 kg	Ring, drum

Bruttogewicht pro Paletteinheit	Conductor category	Longitudinal water blocking conductors	Metal number	Minimum bending radius	Nominal cross section conductor	Number of cores	Outer diameter approx.	Paletteinheit	Protective conductor	Individual length	Net weight	Packing
753,730 kg	Class 1 = solid	Ja	Copper 144	12 x Außen-Ø	1.5 mm ²	10 Stck	12 mm	4.200 m	Ja	Cut length	233 kg	Ring, drum
753,730 kg	Class 1 = solid	Ja	Copper 168	12 x Außen-Ø	2.5 mm ²	7 Stck	12 mm	4.200 m	Ja	Cut length	241 kg	Ring, drum
447,460 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	5.400 m	Ja	100 m	8 kg	Ring
546,810 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm ²	5 Stck	10 mm	3.000 m	Ja	100 m	17 kg	Ring
870,100 kg	Class 1 = solid	Ja	Copper 72	10 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	7.200 m	Ja	100 m	12 kg	Ring
389,740 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm ²	5 Stck	10 mm	2.000 m	Ja	500 m	87 kg	Drum
389,740 kg	Class 2 = stranded	No	Copper 480	12 x Außen-Ø	10 mm ²	5 Stck	17 mm	2.000 m	Ja	Cut length	625 kg	Ring, drum
389,740 kg	Class 1 = solid	Ja	Copper 101	12 x Außen-Ø	1.5 mm ²	7 Stck	10 mm	2.000 m	Ja	Cut length	168 kg	Ring, drum
389,740 kg	Class 1 = solid	Ja	Copper 86.4	12 x Außen-Ø	1.5 mm ²	6 Stck	10 mm	2.000 m	Ja	Cut length	157 kg	Ring, drum
389,740 kg	Class 1 = solid	Ja	Copper 115.2	12 x Außen-Ø	1.5 mm ²	8 Stck	11 mm	2.000 m	Ja	Cut length	189 kg	Ring, drum
389,740 kg	Class 2 = stranded	No	Copper 768	12 x Außen-Ø	16 mm ²	5 Stck	20 mm	2.000 m	Ja	Cut length	932 kg	Ring, drum
934,360 kg	Class 1 = solid	Ja	Copper 192	12 x Außen-Ø	4 mm ²	5 Stck	11 mm	3.600 m	Ja	100 m	25 kg	Ring
934,360 kg	Class 1 = solid	Ja	Copper 288	12 x Außen-Ø	6 mm ²	5 Stck	13 mm	3.600 m	Ja	Cut length	362 kg	Ring, drum
934,360 kg	Class 1 = solid	Ja	Copper 86.4	12 x Außen-Ø	1.5 mm ²	6 Stck	10 mm	3.600 m	Ja	Cut length	157 kg	Ring, drum

Bruttogewicht pro Paletteinheit	Conductor category	Longitudinal water blocking conductors	Metal number	Minimum bending radius	Nominal cross section conductor	Number of cores	Outer diameter approx.	Paletteinheit	Protective conductor	Individual length	Net weight	Packing
934,360 kg	Class 1 = solid	Ja	Copper 101	12 x Außen-Ø	1.5 mm²	7 Stck	10 mm	3.600 m	No	Cut length	168 kg	Ring, drum
934,360 kg	Class 1 = solid	Ja	Copper 115.2	12 x Außen-Ø	1.5 mm²	8 Stck	11 mm	3.600 m	Ja	Cut length	189 kg	Ring, drum
272,706 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm²	3 Stck	7 mm	3.000 m	Ja	500 m	39 kg	Drum
389,286 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm²	5 Stck	9 mm	3.000 m	Ja	500 m	59 kg	Drum
414,860 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm²	5 Stck	10 mm	2.000 m	Ja	500 m	87 kg	Drum
414,860 kg	Class 2 = stranded	No	Copper 288	12 x Außen-Ø	6 mm²	5 Stck	14 mm	2.000 m	Ja	Cut length	375 kg	Ring, drum
853,640 kg	Class 2 = stranded	No	Copper 288	12 x Außen-Ø	6 mm²	5 Stck	14 mm	2.000 m	Ja	500 m	188 kg	Drum
601,056 kg	Class 2 = stranded	No	Copper 288	12 x Außen-Ø	6 mm²	5 Stck	14 mm	1.500 m	Ja	250 m	94 kg	Drum
738,420 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	2.5 mm²	3 Stck	8 mm	6.000 m	Ja	500 m	57 kg	Drum
497,690 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	2.5 mm²	3 Stck	8 mm	4.200 m	Ja	100 m	11 kg	Ring
351,490 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm²	3 Stck	7 mm	4.200 m	Ja	50 m	4 kg	Ring
514,700 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm²	5 Stck	9 mm	4.200 m	Ja	50 m	6 kg	Ring
753,730 kg	Class 1 = solid	Ja	Copper 120	12 x Außen-Ø	2.5 mm²	5 Stck	10 mm	4.200 m	Ja	50 m	9 kg	Ring
753,730 kg	Class 1 = solid	Ja	Copper 192	12 x Außen-Ø	4 mm²	5 Stck	11 mm	4.200 m	Ja	Cut length	253 kg	Ring, drum

Bruttogewicht pro Paletteinheit	Conductor category	Longitudinal water blocking conductors	Metal number	Minimum bending radius	Nominal cross section conductor	Number of cores	Outer diameter approx.	Paletteinheit	Protective conductor	Individual length	Net weight	Packing
891,980 kg	Class 1 = solid	Ja	Copper 288	12 x Außen-Ø	6 mm ²	5 Stck	13 mm	2.400 m	Ja	100 m	36 kg	Ring
531,840 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	6.000 m	Ja	500 m	39 kg	Drum
768,480 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	6.000 m	Ja	500 m	59 kg	Drum
768,480 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	6.000 m	Ja	Cut length	79 kg	Ring, drum
768,480 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	6.000 m	Ja	Cut length	118 kg	Ring, drum
1.057,600 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	7.500 m	Ja	7500 m	883 kg	Drum
511,120 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	4.000 m	Ja	1000 m	118 kg	Drum
511,120 kg	Class 1 = solid	Ja	Copper 43	10 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	4.000 m	Ja	Cut length	79 kg	Ring, drum
1.006,080 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	12.000 m	Ja	1000 m	79 kg	Drum
1.006,080 kg	Class 1 = solid	Ja	Copper 58	12 x Außen-Ø	1.5 mm ²	4 Stck	8 mm	12.000 m	Ja	Cut length	96 kg	Ring, drum
715,440 kg	Class 1 = solid	Ja	Copper 58	12 x Außen-Ø	1.5 mm ²	4 Stck	8 mm	7.200 m	Ja	100 m	10 kg	Ring
680,180 kg	Class 1 = solid	Ja	Copper 86.4	12 x Außen-Ø	1.5 mm ²	6 Stck	10 mm	4.200 m	Ja	100 m	16 kg	Ring
727,270 kg	Class 1 = solid	Ja	Copper 101	12 x Außen-Ø	1.5 mm ²	7 Stck	10 mm	4.200 m	Ja	100 m	17 kg	Ring
703,490 kg	Class 1 = solid	Ja	Copper 115.2	12 x Außen-Ø	1.5 mm ²	8 Stck	11 mm	3.600 m	Ja	100 m	19 kg	Ring

Bruttogewicht pro Paletteinheit	Conductor category	Longitudinal water blocking conductors	Metal number	Minimum bending radius	Nominal cross section conductor	Number of cores	Outer diameter approx.	Paletteinheit	Protective conductor	Individual length	Net weight	Packing
582,840 kg	Class 1 = solid	Ja	Copper 144	12 x Außen-Ø	1.5 mm ²	10 Stck	12 mm	2.400 m	Ja	100 m	23 kg	Ring
891,980 kg	Class 1 = solid	Ja	Copper 288	12 x Außen-Ø	6 mm ²	5 Stck	13 mm	2.400 m	Ja	50 m	18 kg	Ring
582,840 kg	Class 1 = solid	Ja	Copper 144	12 x Außen-Ø	1.5 mm ²	10 Stck	12 mm	2.400 m	Ja	100 m	23 kg	Ring
343,100 kg	Class 1 = solid	Ja	Copper 43	12 x Außen-Ø	1.5 mm ²	3 Stck	7 mm	3.600 m	Ja	300 m	24 kg	Drum
483,650 kg	Class 1 = solid	Ja	Copper 72	12 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	3.600 m	Ja	300 m	35 kg	Drum
406,320 kg	Class 1 = solid	Ja	Copper 58	12 x Außen-Ø	1.5 mm ²	4 Stck	8 mm	3.600 m	Ja	300 m	29 kg	Drum
608,380 kg	Class 1 = solid	Ja	Copper 192	12 x Außen-Ø	4 mm ²	5 Stck	11 mm	2.000 m	Ja	500 m	126 kg	Drum
203,950 kg	Class 2 = stranded	No	Copper 480	12 x Außen-Ø	10 mm ²	5 Stck	17 mm	250 m	Ja	250 m	156 kg	Drum
280,730 kg	Class 2 = stranded	No	Copper 768	12 x Außen-Ø	16 mm ²	5 Stck	21 mm	250 m	Ja	250 m	233 kg	Drum
280,730 kg	Class 1 = solid	Ja	Copper 168	12 x Außen-Ø	2.5 mm ²	7 Stck	12 mm	250 m	Ja	Cut length	240 kg	Ring, drum
375,840 kg	Class 1 = solid	Ja	Copper 72	10 x Außen-Ø	1.5 mm ²	5 Stck	9 mm	3.000 m	Ja	500 m	59 kg	Drum
341,276 kg	Class 1 = solid	Ja	Copper 192	12 x Außen-Ø	4 mm ²	5 Stck	11 mm	1.200 m	Ja	200 m	51 kg	Drum
341,276 kg	Class 2 = stranded	No	Copper 768	12 x Außen-Ø	16 mm ²	5 Stck	20 mm	1.200 m	Ja	Cut length	931 kg	Ring, drum
1.015,700 kg	Class 2 = stranded	No	Copper 480	12 x Außen-Ø	10 mm ²	5 Stck	17 mm	1.500 m	Ja	1500 m	936 kg	Drum

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1.018,550 kg	Class 2 = stranded	No	Copper 288	12 x Außen-Ø	6 mm²	5 Stck	14 mm	2.500 m	Ja	2500 m	939 kg	Drum