

HENAN QIFAN ELECTRIC CO.,LTD

No.903,Guohong building, Huagong Road,High-tech Area ,Zhengzhou,China

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Technical Parameter for 12/20KV NA2XSOH 1x50mm²

Item	Description	Unit	Parameter
1	Reference standard	--	IEC60502-2, IEC60228
2	Rated voltage	KV	12/20(24)
3	Conductor		
	Conductor Material	--	Stranded aluminum wire compact round
	Core number of conductor	--	1
	Conductor cross-sectional area	mm ²	50
	Min. stranding number	Nos	6
	Approx. conductor diameter	mm	7.7--8.6
4	Conductor screen		
	Material of conductor screen	--	Semi-conducting compound
	Nominal thickness of conductor screen	mm	0.7
5	Insulation		
	Insulation material	--	XLPE
	Nominal thickness of insulation	mm	5.5
6	Insulation screen		
	Material of insulation screen	--	Semi-conducting compound
	Nominal thickness of insulation screen	mm	0.7
7	Metal screen (Lapping with overlap)		
	Screen material	--	Aluminum tape
	Minimum thickness	mm	0.3
8	Wrapping tape		
	Non-woven wrapping tape	mm	0.2
9	Outer sheath		
	Material of outer sheath	--	Flame retardant low smoke zero halogen (LSZH)
	Nominal thickness of outer sheath	mm	1.8
	Approx. diameter over outer sheath	mm	27.3
10	Approx. weight of cable	Kg/km	767
11	Max. D.C. Resistance of conductor at 20°C	Ω/km	0.641

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Item	Description	Unit	Parameter
12	A.C resistance of conductor at 90°C	Ω/km	0.8220
13	A.C high voltage test at 42KV, 5minutes	--	No breakdown
14	Inductance	H/m	4.432×10^{-7}
15	Reactance at 50Hz	Ω/km	0.139
16	Capacitance	μF/km	0.182
17	Charging current	A/km	0.69
18	Short circuit rating of conductor	KA/1sec	4.7
19	Current rating		
	In air temperature 40°C	A	160
	In ground temperature 25°C Thermal resistivity of soil 1.5K.m/W Depth of laying 0.8m	A	175

