N2XS(FL)2Y

High Voltage Cables

DESCRIPTION

The N2XS(FL)2Y cable is a customizable high-voltage cable featuring a well-designed protection system against water ingress and high electrical load capacity. It complies with international standards and is ideally suited for demanding energy infrastructure projects.

TECHNICAL DATA

CPR class	Fca	**Flame retardant**	no
Maximal operating conductor temperature (°C)	+90 °C	**Maximal short-circuit temperature (°C)**	+250 °C
Minimal storage temperature (°C)	-35 °C	**Minimal temperature for laying (°C)**	-20 °C
Shape of conductor	RM		

CROSS-SECTION DATA — 6/10 kV

Voltage	6/10 kV	**Test voltage**	21 kV
Operating temperature range	-35-+90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-20 °C
Minimum storage temperature	-35 °C	**CPR class**	Fca
Flame retardant	no		

Cores & CS	Cond.	Shape	Cap [uF/km]	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x50/16	Cu	RM	0.24	16.3	0.387	3.4	238	220	7.1	2.1	520	26	1010
1x70/16	Cu	RM	0.28	17.9	0.268	3.4	294	268	10	2.1	560	28	1238
1x95/16	Cu	RM	0.3	19.4	0.193	3.4	358	320	13.6	2.1	580	29	1495
1x120/16	Cu	RM	0.34	20.9	0.153	3.4	413	363	17.1	2.1	620	31	1773
1x150/25	Cu	RM	0.36	22.3	0.124	3.4	468	405	21.4	2.1	640	32	2119
1x185/25	Cu	RM	0.4	23.9	0.099	3.4	535	456	26.4	2.1	680	34	2483
1x240/25	Cu	RM	0.44	26.4	0.075	3.4	631	526	34.3	2.1	720	36	3073
1x300/25	Cu	RM	0.48	28.8	0.06	3.4	722	591	42.9	2.1	780	39	3737
1x400/35	Cu	RM	0.54	31.4	0.047	3.4	827	662	57.2	2.1	840	42	4697
1x500/35	Cu	RM	0.61	34.6	0.037	3.4	949	744	71.4	2.1	880	44	5729

CROSS-SECTION DATA — 12/20 kV

Voltage	12/20 kV	**Test voltage**	42 kV
Operating temperature range	-35 - + 90 / -35 - +90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-20 °C
Minimum storage temperature	-35 °C	**CPR class**	Fca
Flame retardant	no		

Cores & CS	Cond.	Shape	Cap [uF/km]	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]

1x50/16	Cu	RM	0.17	20.5	0.387	5.5	239	222	7.1	2.1	600	30	1166
1x70/16	Cu	RM	0.19	22.1	0.268	5.5	297	271	10	2.1	640	32	1409
1x95/16	Cu	RM	0.21	23.6	0.193	5.5	361	323	13.6	2.1	660	33	1675
1x120/16	Cu	RM	0.23	25.1	0.153	5.5	416	367	17.1	2.1	700	35	1968
1x150/25	Cu	RM	0.25	26.5	0.124	5.5	470	409	21.4	2.1	720	36	2320
1x185/25	Cu	RM	0.27	28.1	0.099	5.5	538	461	26.4	2.1	760	38	2697
1x240/25	Cu	RM	0.3	30.6	0.075	5.5	634	532	34.3	2.1	800	40	3303
1x300/25	Cu	RM	0.32	33	0.06	5.5	724	599	42.9	2.1	860	43	3978
1x400/35	Cu	RM	0.36	35.6	0.047	5.5	829	671	57.2	2.1	900	45	4925
1x500/35	Cu	RM	0.4	38.8	0.037	5.5	953	754	71.4	2.1	980	49	6006

CROSS-SECTION DATA — 18/30 kV

Voltage	18/30 kV	**Test voltage**	63 kV
Operating temperature range	-35-+90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-20 °C
Minimum storage temperature	-35 °C	**CPR class**	Fca
Flame retardant	no		

Cores & CS	Cond.	Shape	Cap [uF/km]	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x50/16	Cu	RM	0.13	25.5	0.387	8	241	225	7.1	2.1	700	35	1405
1x70/16	Cu	RM	0.15	27.1	0.268	8	299	274	10	2.1	740	37	1646
1x95/16	Cu	RM	0.16	28.6	0.193	8	363	327	13.6	2.1	760	38	1926
1x120/16	Cu	RM	0.17	30.1	0.153	8	418	371	17.1	2.1	800	40	2227
1x150/25	Cu	RM	0.19	31.5	0.124	8	472	414	21.4	2.1	820	41	2590
1x185/25	Cu	RM	0.2	33.1	0.099	8	539	466	26.4	2.1	860	43	2975
1x240/25	Cu	RM	0.22	35.6	0.075	8	635	539	34.3	2.1	900	45	3594
1x300/25	Cu	RM	0.24	38	0.06	8	725	606	42.9	2.1	960	48	4300
1x400/35	Cu	RM	0.26	40.6	0.047	8	831	680	57.2	2.1	1020	51	5290
1x500/35	Cu	RM	0.29	43.8	0.037	8	953	765	71.4	2.4	1080	54	6403