

Power ratings for XLPE-insulated Medium Voltage Power Cables 6/10 kV, 12/20 kV, 18/30 kV

N2XS_Y
NA2XS_Y

N2XS_{2Y}
NA2XS_{2Y}

N2XS(F)2_Y
NA2XS(F)2_Y

Current carrying capacity* in Amperes (A) in ground (20°C)

Conductor material	Copper conductor						Aluminium conductor					
Arrangement												
U ₀ /U	6/10 kV		12/20 kV		18/30 kV		6/10 kV		12/20 kV		18/30 kV	
cross section mm ²	Current ratings in Ampere (A)											
25	157	179	–	–	–	–	–	–	–	–	–	–
35	187	212	189	213	–	–	145	165	–	–	–	–
50	220	249	222	250	225	251	171	194	172	195	174	195
70	268	302	271	303	274	304	208	236	210	237	213	238
95	320	359	323	360	327	362	248	281	251	282	254	283
120	363	405	367	407	371	409	283	318	285	319	289	321
150	405	442	409	445	414	449	315	350	319	352	322	354
185	456	493	461	498	466	502	357	394	361	396	364	399
240	526	563	532	568	539	574	413	452	417	455	422	458
300	591	626	599	633	606	640	466	506	471	510	476	514
400	662	675	671	685	680	695	529	558	535	564	541	570
500	744	748	754	760	765	773	602	627	609	634	616	642

*This factors are also valid for longitudinally water-tight cable

Current carrying capacity* in Amperes (A) in air (30°C)

Conductor material	Copper conductor						Aluminium conductor					
Arrangement												
U ₀ /U	6/10 kV		12/20 kV		18/30 kV		6/10 kV		12/20 kV		18/30 kV	
cross section mm ²	Current ratings in Ampere (A)											
25	163	194	–	–	–	–	–	–	–	–	–	–
35	197	235	200	235	–	–	153	182	–	–	–	–
50	236	282	239	282	241	282	183	219	185	219	187	219
70	294	350	297	351	299	350	228	273	231	273	232	273
95	358	426	361	426	363	425	278	333	280	332	282	331
120	413	491	416	491	418	488	321	384	323	384	325	382
150	468	549	470	549	472	548	364	432	366	432	367	429
185	535	625	538	625	539	624	418	496	420	494	421	492
240	631	731	634	731	635	728	494	583	496	581	496	578
300	722	831	724	830	725	828	568	666	569	663	568	659
400	827	920	829	923	831	922	660	755	660	753	650	750
500	949	1043	953	1045	953	1045	767	868	766	866	764	861

*This factors are also valid for longitudinally water-tight cable