

Managing and control cables in rubber insulation in rubber sheath of pair twisting

KNpRng-HF, KNpREng-HF, KNpRPng-HF, KNpREPng-HF types



Design	
Current-carrying conductor	Copper, stranded
Insulation	Ethylene propylene rubber of HF EPR type
Group of the conductors	Insulated conductors are twisted in pair, triad, quad
Filling material	Halogen-free composition
Taping	Synthetic tape
Collective screen	Copper wires for cables of KNpREng-HF, KNpREPng-HF types
Intermediate sheath	Oil-resistant halogen-free rubber of SHF2 type for the cable of KNpREPng-HF type
Armour	Steel galvanized wires for the cables of KNpRPng-HF, KNpREPng-HF types
Taping	Synthetic tape
Sheath	Oil-resistant halogen-free rubber of SHF2 type

Standards IEC 60092-350, IEC 60092-376	
Materials	IEC 60228 class 2 (conductor) IEC 60092-351 (insulation) IEC 60092-359 (sheath)
Flame retardant	IEC 60332-3-22 (A category) and IEC 60332-1
Absence of halogens	IEC 60754-2
Low smoke emission	IEC 61034-2
Maximum current-carrying conductor's heating temperature is	+90 °C
Service life is	35 years

Cables with «LS» index are mud-resistant.

Nominal outer diameter and weight of cables of KNpRng-LS type equal to nominal outer diameter and weight of cables of KNpRng-HF type, nominal outer diameter and weight of cables of KNpREng-LS type equal to nominal outer diameter and weight of cables of KNpREng-HF type, nominal outer diameter and weight of cables of KNpRPng-LS type equal to nominal outer diameter and weight of cables of KNpRPng-HF type, nominal outer diameter and weight of cables of KNpREPng-LS type equal to nominal outer diameter and weight of cables of KNpREPng-HF type.

Engineering parameters and reference data (selective cross-section):

Number and nominal cross-section of the conductors, mm ²	Nominal outer diameter, mm				Weight of 1 km cable, kg			
	KNpRng-HF	KNpREng-HF	KNpRPng-HF	KNpREPng-HF	KNpRng-HF	KNpREng-HF	KNpRPng-HF	KNpREPng-HF
1x2x 1,0	8,1	9,0	9,6	12,6	116	136	132	256
2x2x 1,0	12,2	13,1	13,5	17,1	200	260	262	444
3x2 x 1,0	12,9	14,0	14,4	18,0	228	299	301	494
4x2 x 1,0	14,4	15,2	15,6	19,4	276	346	348	567
5x2 x 1,0	15,7	16,8	17,2	21,0	337	424	425	665
7x2 x 1,0	17,4	18,2	18,6	22,6	413	498	499	769
8x2 x 1,0	18,8	19,8	20,2	24,2	459	562	563	855
10x2 x 1,0	22,5	23,4	23,8	28,2	615	726	727	1097
12x2 x 1,0	23,2	24,1	24,7	28,9	680	796	809	1177
14x2 x 1,0	24,7	25,5	25,9	30,5	773	895	896	1312
19x2 x 1,0	27,7	28,5	28,9	33,7	994	1130	1131	1611
24x2 x 1,0	32,8	34,1	34,1	39,7	1290	1536	1453	2145
1x2x 1,5	8,9	9,6	10,2	13,2	143	159	153	285
2x2x 1,5	13,2	14,3	14,7	18,3	241	313	315	512
3x2 x 1,5	14,2	15,0	15,4	19,0	284	353	354	561
4x2 x 1,5	15,6	16,6	17,0	20,8	336	421	423	660
5x2 x 1,5	17,3	18,1	18,5	22,5	423	508	509	778
7x2 x 1,5	18,8	19,9	20,3	24,3	507	611	612	905
8x2 x 1,5	20,6	21,5	22,1	26,1	577	679	691	1008
10x2 x 1,5	24,7	25,5	25,9	30,5	769	890	891	1308
12x2 x 1,5	25,5	26,3	26,7	31,3	854	980	981	1410
14x2 x 1,5	26,8	27,9	28,3	33,1	956	1104	1105	1575
19x2 x 1,5	30,3	31,6	31,6	36,6	1251	1478	1402	1943
24x2 x 1,5	36,0	37,2	37,2	43,0	1620	1889	1799	2573