

Control and communicating cables in rubber insulation in plastic sheath of pair twisting

KNpRkng-HF, KNpREkng-HF, KNpRPkng-HF, KNpREPkng-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
General Screen	of copper wires of cables of KNpREkng-HF, KNpREPkng-HF types
Intermediate sheath	Halogen-free composition for the cables of KNpREPkng-HF type
Armour	Of steel galvanized wires for cables of KNpRPkng-HF, KNpREPkng-HF types
Taping	Synthetic tape
Sheath	Cross-linked oil-resistant halogen-free composition of SHF2 type

Standards IEC 60092-350, IEC 60092-376

Materials	IEC 60228 2 nd class (conductor) IEC 60092-351 (insulation) IEC 60092-359 (sheath)
Flame-retardant	IEC 60332-3-22 (A category) and IEC 60332-1
Absences of halogens	IEC 60754-2
Small smoke emission	IEC 61034-2
Current-carrying conductor's heating temperature	+90 °C
Service life	35 years

Nominal outer diameter and weight of cables of KNpRkng-LS type equal to nominal outer diameter and weight of cables of KNpRkng-HF type, nominal outer diameter and weight of cables of KNpREkng-LS type equal to nominal outer diameter and weight of cables of KNpREkng-HF type, nominal outer diameter and weight of cables of KNpRPkng-LS type equal to nominal outer diameter and weight of cables of KNpRPkng-HF type, nominal outer diameter and weight of cables of KNpREPkng-LS type equal to nominal outer diameter and weight of cables of KNpREPkng-HF type.

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

Number and nominal cross-section of the conductors, mm ²	Nominal outer diameter, mm				Weight of 1 km cable, kg			
	KNpRkng-HF	KNpREkng-HF	KNpRPkng-HF	KNpREPkng-HF	KNpRkng-HF	KNpREkng-HF	KNpRPkng-HF	KNpREPkng-HF
1x2x 1,0	8,1	9,0	9,6	12,6	115	135	131	253
2x2x 1,0	12,2	13,1	13,5	17,1	198	257	259	440
3x2 x 1,0	12,9	14,0	14,4	18,0	226	296	297	489
4x2 x 1,0	14,4	15,2	15,6	19,4	273	343	344	561
5x2 x 1,0	15,7	16,8	17,2	21,0	334	420	421	659
7x2 x 1,0	17,4	18,2	18,6	22,6	409	493	495	762
8x2 x 1,0	18,8	19,8	20,2	24,2	455	557	558	848
10x2 x 1,0	22,5	23,4	23,8	28,2	609	720	721	1087
12x2 x 1,0	23,2	24,1	24,7	28,9	674	789	802	1167
14x2 x 1,0	24,7	25,5	25,9	30,5	766	887	888	1301
19x2 x 1,0	27,7	28,5	28,9	33,7	986	1122	1122	1598
24x2 x 1,0	32,8	34,1	34,1	39,7	1279	1524	1442	2128
1x2x 1,5	8,9	9,6	10,2	13,2	142	157	152	282
2x2x 1,5	13,2	14,3	14,7	18,3	238	310	311	507
3x2 x 1,5	14,2	15,0	15,4	19,0	281	349	351	556
4x2 x 1,5	15,6	16,6	17,0	20,8	333	417	419	654
5x2 x 1,5	17,3	18,1	18,5	22,5	419	503	505	771
7x2 x 1,5	18,8	19,9	20,3	24,3	503	606	607	897
8x2 x 1,5	20,6	21,5	22,1	26,1	572	673	686	1000
10x2 x 1,5	24,7	25,5	25,9	30,5	762	883	884	1297
12x2 x 1,5	25,5	26,3	26,7	31,3	847	973	973	1398
14x2 x 1,5	26,8	27,9	28,3	33,1	948	1096	1097	1562
19x2 x 1,5	30,3	31,6	31,6	37,0	1241	1468	1392	2011
24x2 x 1,5	36,0	37,2	37,2	43,0	1607	1876	1785	2554