

Control and communicating cables in rubber insulation in plastic sheath with separately screened pairs

KNpERkng-HF, KNpEREkng-HF, KNpERPkg-HF, KNpEREpkng-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
Screen of group	- Of copper wires - of tape foiled with aluminium
Filling material	Halogen-free composition
Taping	Synthetic tape
Collective screen	Of copper wires for cables of KNpEREkng-HF, KNpEREpkng-HF types
Intermediate sheath	Halogen-free composition for the cables of KNpEREpkng-HF type
Armour	Of steel galvanized wires for cables of KNpERPkg-HF, KNpEREpkng-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 2nd 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
Maximum current-carrying conductor's heating temperature	+90 °C
Service life	35 years

Nominal outer diameter and weight of cables of KNpERkng-LS types equal to nominal outer diameter and weight of cables of KNpERkng-HF type, nominal outer diameter and weight of cables of KNpEREkng-LS type equal to nominal outer diameter and weight of cables of KNpEREkng-HF type, nominal outer diameter and weight of cables of KNpERPkg-LS type equal to nominal outer diameter and weight of cables of KNpERPkg-HF type, nominal outer diameter and weight of cables of KNpEREpkng-LS type equal to nominal outer diameter and weight of cables of KNpEREpkng-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			
	KNpERkng-HF	KNpEREkng-HF	KNpERPkg-HF	KNpEREpkng-HF	KNpERkng-HF	KNpEREkng-HF	KNpERPkg-HF	KNpEREpkng-HF
1x2x 1,0	9,0	9,7	10,3	12,4	136	179	204	281
2x2x 1,0	13,4	14,4	14,8	17,3	260	332	333	512
3x2 x 1,0	14,4	15,2	15,6	18,1	312	381	383	572
4x2 x 1,0	15,8	16,8	17,2	19,9	373	458	459	678
5x2 x 1,0	17,5	18,3	18,7	21,4	475	560	561	800
7x2 x 1,0	19,3	20,1	20,5	23,4	581	675	676	950
8x2 x 1,0	20,9	21,7	22,3	25,2	649	752	764	1061
10x2 x 1,0	25,0	25,9	26,3	29,6	859	983	984	1365
12x2 x 1,0	25,8	26,7	27,1	30,6	963	1091	1091	1500
14x2 x 1,0	27,4	28,3	28,7	32,2	1097	1233	1233	1666
19x2 x 1,0	30,8	32,0	32,0	35,9	1423	1652	1575	2168
24x2 x 1,0	36,5	37,7	37,7	42,0	1837	2110	2018	2760
1x2x 1,5	9,6	10,3	10,9	13,0	159	205	231	313
2x2x 1,5	14,5	15,4	15,8	18,3	311	382	384	575
3x2 x 1,5	15,4	16,3	16,9	19,4	367	442	452	656
4x2 x 1,5	17,1	18,0	18,4	21,1	449	533	534	769
5x2 x 1,5	18,8	19,9	20,3	23,2	557	660	661	932
7x2 x 1,5	20,8	21,6	22,2	25,1	691	793	805	1101
8x2 x 1,5	22,7	23,6	24,0	27,1	784	896	897	1231
10x2 x 1,5	27,0	28,0	28,4	31,9	1022	1169	1170	1599
12x2 x 1,5	28,1	28,9	29,3	33,0	1163	1301	1301	1761
14x2 x 1,5	29,6	31,0	31,0	34,7	1310	1546	1472	2029
19x2 x 1,5	33,4	34,7	34,7	38,8	1720	1970	1886	2548
24x2 x 1,5	39,6	41,1	41,1	45,6	2217	2536	2435	3267