J-Y(St)Y...Lg



Application

The cables are used in instrumentation and control engineering - in industrial electronics, information and transmission systems, control and measuring systems, office machines and precision mechanics.
The cables are suitable for voice communication in telecommunications systems.

Technical data

- manufactured acc. to DIN VDE 0815
- peak working voltage : 300 V (up to 600 V for 6 s/min permitted)
- test voltage core/core : 800 V
- test voltage core/screen : 800 V
- insulation resistance : min 100 MΩ x km
- loop resistance: 130 (for dia. 0.6) and 73,2 (for dia. 0,80) Ω/km
- mutual capacitance at 800 Hz: max 150 nF/km
- maximum conductor temperature: + 70 °C
- temperature of environment: mobile: - 5 °C to +50 °C; fixed: -30 °C to +50 °C
- minimum temperature during installation: - 5 °C
- minimum bending radius: mobile : 7,5D; fixed : 5D (D - diameter of cable)
- flame test: flame-retardant acc. to IEC 60332-1
- sheath colour: grey

Cable design

- copper or tinned conductors of diameters 0,60 mm and 0,80 mm
- insulation: PVC compound type YI1 according to DIN VDE 0207-4
- sub units: two cores twisted in a pair
- cable unit of twisted pairs
- wrapping: plastic foil overlapping
- fixed screen of Al laminated plastic foil with tinned copper drain wire of diameter: for cables up to 10 pairs - 0,40 mm; for cables above 10 pairs - 0,60 mm
- sheath: PVC compound type YM1 according to DIN VDE 0207-5

Code designation

- **J** - installation cable
- **Y** - PVC -insulation or PVC- sheath
- **St** - static screen
- **Lg** - pairs twist in layers

Core identification in accordance to DIN VDE 0815

The colour of each a-core in the first pair of each layer should be red, and in all other pairs should be white.
The colour of each b-core is blue, yellow, green, brown, black is continuously repeated in the following sequence:

Pair No	b-core colour
1, 6, 11, 16, 21, 26	blue
2, 7, 12 , 17, 22, 27	yellow
3, 8, 13, 18, 23, 28	green
4, 9, 14, 19, 24, 29	brown
5, 10, 15, 20, 25, 30	black

GAMAKABEL

J-Y(St)Y.....x2x0,6 Lg

Number of Pairs No	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
1	4,5	7	24,4
2	5,0	13	33,3
3	6,3	18	45,8
4	6,6	24	55,3
5	7,2	30	64,2
6	7,6	35	74,1
8	7,8	46	88,0
10	9,3	58	116,1
12	9,9	71	134,9
14	10,2	82	151,6
16	10,8	93	167,3
20	11,5	116	199,2
24	12,9	139	245,6
30	14,1	172	294,6

J-Y(St)Y.....x2x0,8 Lg

Number of Pairs No	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
1	5,8	11	38
2	6,5	21	56
3	8,2	31	79
4	9,0	41	98
5	9,7	52	115
6	10,6	62	135
8	11,0	82	164
10	12,9	102	214
12	13,8	123	250
14	14,6	144	284
16	15,4	164	317
20	16,6	204	381
24	19,4	244	467
30	20,5	304	565