J-Y(St)Y...Lg

DIN VDE 0815

TT1-5331 31.08.2020

Telecommunication cable, screened

CONSTRUCTION	
Conductors:	single copper wire with uniform circular cross-section, homogenous quality, free from defects; elongation at break >15 %
Insulation:	PVC type YI1 acc. to DIN VDE 0207-4
Cable core wrapping:	polyester tape
Drain wire:	tinned copper wire ϕ0.4mm for cables up to 10 pairs ϕ0.6mm for cables over 10 pairs
Collective screen:	aluminium/polyester tape
Sheath:	PVC type YM1 acc. to DIN VDE 0207-5

CHARACTERISTIC

Colour of insulation:

wire "a"					**first pair of each layer**					red
					other pairs of each layer					white
No. pair										**wire "b"**
1	6	11	16	21	26	31	36	41	46	blue
2	7	12	17	22	27	32	37	42	47	yellow
3	8	13	18	23	28	33	38	43	48	green
4	9	14	19	24	29	34	39	44	49	brown
5	10	15	20	25	30	35	40	45	50	black
51	56	61	66	71	76	81	86	91	96	blue
52	57	62	67	72	77	82	87	92	97	yellow
53	58	63	68	73	78	83	88	93	98	green
54	59	64	69	74	79	84	89	94	99	brown
55	60	65	70	75	80	85	90	95	100	black

colours of insulation of two pair cable stranded as a quad:

	wire "a"	**wire "b"**
Loop 1	red	black
Loop 2	white	yellow

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Pairs arrangement in the cable:	

No. pairs	Layers					
	1	2	3	4	5	6
1	1	-	-	-	-	-
2	1	-	-	-	-	-
3	1	-	-	-	-	-
4	1	-	-	-	-	-
5	1	-	-	-	-	-
6	1	5	-	-	-	-
10	2	8	-	-	-	-
12	3	9	-	-	-	-
16	5	11	-	-	-	-
20	1	6	13	-	-	-
24	2	8	14	-	-	-
30	4	10	16	-	-	-
40	1	7	13	19	-	-
50	4	10	15	21	-	-
60	1	6	12	18	23	-
80	4	10	16	22	28	-
100	2	8	14	20	25	31

Colour of sheath:	grey, white (for 2, 4, 6 and 10 pairs cable), red* or green* *based on standard
Temperature range:	installed: -30÷70°C during installation: -5÷50°C
Minimum bending radius:	10 x D, D – overall diameter

No. of pair	Approximate diameter of cable	Approximate weight of cable
n x 2 x mm	**mm**	**kg/km**
1 x 2 x 0.6*	5.0	28
2 x 2 x 0.6	5.4	36
3 x 2 x 0.6*	6.3	46
4 x 2 x 0.6	6.7	55
5 x 2 x 0.6*	7.0	63
6 x 2 x 0.6	7.5	71
8 x 2 x 0.6*	7.9	86
10 x 2 x 0.6	8.7	102
12 x 2 x 0.6*	9.0	118
16 x 2 x 0.6	9.9	148
20 x 2 x 0.6	10.8	177
24 x 2 x 0.6	11.6	207
30 x 2 x 0.6	13.1	261
40 x 2 x 0.6	14.7	342
50 x 2 x 0.6	16.1	403
60 x 2 x 0.6	17.4	473

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No. of pair	Approximate diameter of cable	Approximate weight of cable
n x 2 x mm	**mm**	**kg/km**
80 x 2 x 0.6	20.1	634
100 x 2 x 0.6	22.3	768
1 x 2 x 0.8*	5.7	37
2 x 2 x 0.8	6.3	51
3 x 2 x 0.8*	7.7	71
4 x 2 x 0.8	8.3	87
5 x 2 x 0.8*	8.8	99
6 x 2 x 0.8	9.5	116
8 x 2 x 0.8*	10.0	140
10 x 2 x 0.8	11.2	174
12 x 2 x 0.8*	11.7	197
16 x 2 x 0.8	13.4	263
20 x 2 x 0.8	14.6	317
24 x 2 x 0.8	15.7	369
30 x 2 x 0.8	17.2	468
40 x 2 x 0.8	19.9	596
50 x 2 x 0.8	21.9	727
60 x 2 x 0.8	24.1	883
80 x 2 x 0.8	27.3	1135
100 x 2 x 0.8	30.8	1422

*based on standard

PARAMETERS

Electrical parameters at 20 °C	**unit**	**Nominal diameter of wire [mm]**	
		0.6	0.8
Pair loop resistance (max.)	Ω/km	130	73.2
Resistance of insulation (min.)	MΩ·km	100	
Working capacitance at 800Hz (max.)	nF/km	100*	
Capacitance unbalance (max.) at 800 Hz	pF/100m	300**	
Working voltage (max.)	V	300	

*for cable with 1,2 and 4 pairs, this value can be 20% exceed

**for 20% of measurements capacitance unbalance can be up to 500 pF

REACTION TO FIRE

Flame retardant:	IEC 60332-1-2
CPR – class reaction to fire (acc. EN 50575):	Eca

APPLICATION

Installation cables used for telecommunication devices and data processing.

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