

J-Y(St)Y...Lg

DIN VDE 0815

TT1-5331 21.06.2023



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
	101	106	111	116	121	126	131	136	141	146	blue
	102	107	112	117	122	127	132	137	142	147	yellow
	103	108	113	118	123	128	133	138	143	148	green
	104	109	114	119	124	129	134	139	144	149	brown
105	110	115	120	125	130	135	140	145	150	black	
151	156	161	166	171	176	181	186	191	196	blue	

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	152	157	162	167	172	177	182	187	192	197	yellow
	153	158	163	168	173	178	183	188	193	198	green
	154	159	164	169	174	179	184	189	194	199	brown
	155	160	165	170	175	180	185	190	195	200	black
	colours of insulation of two pair cable stranded as a quad:										
	wire “a”					wire “b”					
Loop 1	red					black					
Loop 2	white					yellow					
Pairs arrangement in the cable:	No. pairs	Layers									
		1	2	3	4	5	6	7	8		
	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	-	-		
	200	4	10	16	22	28	34	40	46		
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										

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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
80 x 2 x 0.6	20.1	634
100 x 2 x 0.6	22.3	768
200 x 2 x 0.6*	29.8	1499
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

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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	
Test voltage, 50Hz	V	800/800	

*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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