

Telecommunication cable

J-Y(St)Y Lg 2÷100x2x0,6 / 0,8

VDE 0815; Spec. No. TT1-5367/4/0

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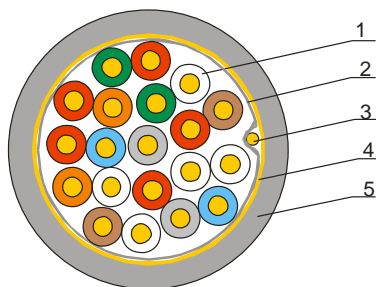


Type: Telecommunication cable, screened



Cable construction:

1. Insulated wires twisted into pairs
2. Polyester tape
3. Drain wire
4. AL/PET tape
5. Sheath



CABLE CONSTRUCTION

Conductors	single copper wire with uniform circular cross-section, homogenous quality, free from defects; Elongation at break >15 %		
Insulation:	PVC, Elongation at break of insulation min 125 % Tensile strength min 12,5 N/mm ² (after thermal ageing change doesn't exceed 20 %)		
Insulated wire nominal diameter [mm]	according to VDE		
Colours of insulation			
Wire a	First pair of each layer		RED
	Other pairs of each layer		WHITE
Wire b			
	Pair number	colour of "b" wire	
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			
Pair	Wire a	Wire b	
Loop 1	RED	BLACK	
Loop 2	WHITE	YELLOW	
Pairs lay length	max 150mm		
Cable core stranding lay length	max 600mm		

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CABLE CONSTRUCTION

Pairs arrangement in the cable						
Number of pairs	Layers					
	1	2	3	4	5	6
2	2					
4	4					
6	6					
10	2	8				
14	4	10				
15	4	11				
16	5	11				
20	1	6	13			
24	2	8	14			
25	2	8	15			
30	4	10	16			
32	4	10	18			
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
Binding tapes for cable core and inner layers	colourless					
Drain wire	Cu tinned, - $\phi 0,4$ mm for cables up to 10 pairs - $\phi 0,6$ mm for cables over 10 pairs					
Screen	aluminium/polyethylene tape 0,012mm/0,012mm					
Outer sheath material	PVC, grey Elongation at break of insulation min 125 % (after ageing min 100%) Tensile strength min 12,5 N/mm ²					
Outer sheath thickness						
Diameter under the sheath [mm]			Sheath thickness (nom.) [mm]			
up to 10			1,0			
up to 15			1,2			
up to 20			1,4			
up to 25			1,6			
up to 30			1,8			
up to 35			2,0			
Marking/Printing:	J-Y(St)Y 15x2x0,6...Lg TF KABLE 1 2012 (or according to the agreement). Length marking every metre					
Standard delivery lengths	500m on wooden drums or acc. to the agreement					

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ELECTRICAL PARAMETERS

Electrical parameters at 20C	units	Nominal diameter [mm]	
		wire 0,6	wire 0,8
Pair loop resistance of 1km(max)	Ohm/km	130	73,2
Resistance of insulation (min)	Mohm*km	100	
Working capacitance (max)	nF/kim	100	
Capacitance unbalance (max) at 800Hz	pF/100m	300	

FEATURES

Cables are designed in temperature range $-40^{\circ}\text{C} \div 70^{\circ}\text{C}$ inside the buildings generally in analogue telephone network.



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