

**TLWY****FLAT RIBBON CABLES****APPLICATIONS**

**TLWY** - are flat ribbon cables are designed for control cabinets, electronic devices and others as interconnection cables for electronic modules, equipment and instruments.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request),
- PVC insulation - identification colour code according to table (other colour systems also available),

No of conductor	Colour of insulation
1 8 15 22	red
2 9 16 23	blue
3 10 17 24	black
4 11 18 25	white
5 12 19 26	green
6 13 20 27	brown
7 14 21 28	yellow

- insulated conductors laid parallel to each other and glued together.

**CHARACTERISTICS**

Conductor cross-section	mm <sup>2</sup>	0.124	0.14	0.22	0.35	0.5	0.75	1.0	1.5
Peak operating voltage	Vrms	150	150	150	150	300	300	300	300
Voltage test	Vrms	500	500	1000	1500	1500	1500	2000	2000
Insulation resistance, minimum	MΩ·km	10	10	10	10	10	10	10	10
DC conductor resistance at 20°C, maximum	Ω/km	155	140	89.2	57	38.8	26	19.5	13.3

Operating temperature range  
for fixed equipment from - 10 to + 70°C  
for movable equipment from - 5 to + 50°C

Minimum bending radius 10 x wire diameter  
Cable combustibility flame retardant  
Combustibility tests PN-EN 60332-1-2 and IEC 60332-1  
Reference standards PN-91/T-90211

CE = the cable meets requirements of the low voltage directive 2006/95/WE

**TLWY**

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Product No.	Number of conductors x conductor cross-section	Cable outer dimensions (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km
	2 x 0.124	1.0 x 2.0	2.38	4.4
	3 x 0.124	1.0 x 3.0	3.57	6.5
	4 x 0.124	1.0 x 4.0	4.76	8.7
	5 x 0.124	1.0 x 5.0	5.95	10.9
	6 x 0.124	1.0 x 6.0	7.14	13.1
	7 x 0.124	1.0 x 7.0	8.33	15.2
	8 x 0.124	1.0 x 8.0	9.52	17.4
	9 x 0.124	1.0 x 9.0	10.7	19.6
	10 x 0.124	1.0 x 10.0	11.9	21.8
	11 x 0.124	1.0 x 11.0	13.1	23.9
	12 x 0.124	1.0 x 12.0	14.3	26.1
	7 x 0.14	1.05 x 7.35	9.4	16.7
	8 x 0.14	1.05 x 8.4	10.8	19.1
	10 x 0.14	1.05 x 10.5	13.4	23.8
	12 x 0.14	1.05 x 12.6	16.1	28.6
	2 x 0.22	1.05 x 2.1	4.22	5.7
	3 x 0.22	1.05 x 3.15	6.34	8.6
	4 x 0.22	1.05 x 4.2	8.45	11.4
	5 x 0.22	1.05 x 5.15	10.6	14.3
	6 x 0.22	1.05 x 6.3	12.7	17.1
	7 x 0.22	1.05 x 7.35	14.8	20.0
	8 x 0.22	1.05 x 8.4	16.9	22.9
	9 x 0.22	1.05 x 9.45	19.0	25.7
	10 x 0.22	1.05 x 10.5	21.1	28.6
	12 x 0.22	1.05 x 12.6	25.3	34.3
	15 x 0.22	1.05 x 15.75	31.7	42.9
	20 x 0.22	1.05 x 21.0	42.2	57.2
	24 x 0.22	1.05 x 25.2	50.7	68.6

Product No.	Number of conductors x conductor cross-section	Cable outer dimensions (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km
	2 x 0.35	1.4 x 2.8	6.72	9.2
	3 x 0.35	1.4 x 4.2	10.1	13.8
	4 x 0.35	1.4 x 5.6	13.4	18.7
	5 x 0.35	1.4 x 7.0	16.8	23.0
	6 x 0.35	1.4 x 8.4	20.2	27.7
	7 x 0.35	1.4 x 9.8	23.5	32.3
	8 x 0.35	1.4 x 11.2	26.9	37.4
	9 x 0.35	1.4 x 12.6	30.2	41.5
	10 x 0.35	1.4 x 14.0	33.6	46.2
	11 x 0.35	1.4 x 15.4	37.0	50.8
	12 x 0.35	1.4 x 16.8	40.3	56.1
	20 x 0.35	1.4 x 28.0	67.2	93.6
	24 x 0.35	1.4 x 37.9	80.6	112.3
	4 x 0.50	1.94 x 7.76	19.2	32.2
	6 x 0.50	1.94 x 11.64	28.8	47.4
	8 x 0.50	1.94 x 15.52	38.4	63.2
	10 x 0.50	1.94 x 19.40	48.0	79.3
	12 x 0.50	1.94 x 23.28	57.6	95.2
	4 x 0.75	2.2 x 8.8	28.8	43.4
	6 x 0.75	2.2 x 13.2	43.2	65.1
	8 x 0.75	2.2 x 17.6	57.6	86.8
	12 x 0.75	2.2 x 26.4	86.4	130.1
	4 x 1.0	2.3 x 9.2	38.4	53.6
	12 x 1.0	2.3 x 27.6	115.2	161.0

Other cross-sections and conductor counts are available upon request.  
 TECHNOKABEL S.A reserves the right to change specifications without prior notice.