

**TLWY****RIBBON CABLES**Operating voltage  
max 150 VOperating voltage  
max 300 VTemp. range  
fixed installation  
from -30°C to +70°CTemp. range  
during installation  
from -5°C to +50°CBending radius  
10xDHigh  
flexibilityFlame retardant  
PN-EN 60332-1-2Flame retardant  
PN-EN 60332-2-2Indoor  
application**APPLICATIONS**

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

Cables are designed to allow easy separation of any number of wires.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation - colours of insulation and their sequence according to the following table, other combinations of colours are available on request:

No. wires	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 arranged parallel to each other and glued together.

**TLWY**
**CHARACTERISTICS**

Conductor cross-section	mm <sup>2</sup>	0.124	0.14	0.22	0.35	0.5	0.75	1.0	1.5
Operating voltage, peak value	V	150	150	150	150	300	300	300	300
Voltage test	V rms	500	500	1000	1500	1500	1500	2000	2000
Insulation resistance, minimum	MΩ·km	50	200	200	200	200	200	200	200
DC conductor resistance at 20°C, maximum	Ω/km	155	144	89.3	57.2	38.8	25.8	19.1	13.3

Operating temperature range

 for fixed installation from - 30 to + 70°C  
 for movable installation from - 5 to + 50°C

Minimum bending radius

10 x wire height

Cable combustibility

flame retardant

Combustibility tests

 PN-EN 60332-1-2, PN-EN 60332-2-2  
 IEC 60332-1-2, IEC 60332-2-2

Reference standards

PN-91/T-90211

**CE = the cable meets requirements of the low voltage directive 2014/35/EU**

Product No.	Number of conductors x conductor cross-section	Outer dimensions (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>			kg/km
		mm	kg/km	kg/km
0240 027	2 x 0,124	1.0 x 2.0	2.38	4.4
0240 061	3 x 0,124	1.0 x 3.0	3.57	6.5
0240 029	4 x 0,124	1.0 x 4.0	4.76	8.7
0240 030	5 x 0,124	1.0 x 5.0	5.95	10.9
0240 032	6 x 0,124	1.0 x 6.0	7.14	13.1
0240 033	7 x 0,124	1.0 x 7.0	8.33	15.2
0240 036	8 x 0,124	1.0 x 8.0	9.52	17.4
0240 037	9 x 0,124	1.0 x 9.0	10.7	19.6
0240 039	10 x 0,124	1.0 x 10.0	11.9	21.8
0240 040	11 x 0,124	1.0 x 11.0	13.1	23.9
0240 041	12 x 0,124	1.0 x 12.0	14.3	26.1
0240 001	7 x 0,14	1.05 x 7.35	9.4	16.7
0240 002	8 x 0,14	1.05 x 8.4	10.8	19.1
0240 003	10 x 0,14	1.05 x 10.5	13.4	23.8
0240 004	12 x 0,14	1.05 x 12.6	16.1	28.6
0240 062	2 x 0,22	1.05 x 2.1	4.22	5.7
0240 063	3 x 0,22	1.05 x 3.15	6.34	8.6
0240 043	4 x 0,22	1.05 x 4.2	8.45	11.4
0240 044	5 x 0,22	1.05 x 5.15	10.6	14.3
0240 046	6 x 0,22	1.05 x 6.3	12.7	17.1
0240 047	7 x 0,22	1.05 x 7.35	14.8	20.0
0240 048	8 x 0,22	1.05 x 8.4	16.9	22.9
0240 049	9 x 0,22	1.05 x 9.45	19.0	25.7
0240 050	10 x 0,22	1.05 x 10.5	21.1	28.6
0240 053	12 x 0,22	1.05 x 12.6	25.3	34.3
0240 064	15 x 0,22	1.05 x 15.75	31.7	42.9
0240 054	20 x 0,22	1.05 x 21.0	42.2	57.2
0240 065	24 x 0,22	1.05 x 25.2	50.7	68.6

Product No.	Number of conductors x conductor cross-section	Outer dimensions (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>			kg/km
		mm	kg/km	kg/km
0240 066	2 x 0,35	1.4 x 2.8	6.72	9.2
0240 056	3 x 0,35	1.4 x 4.2	10.1	13.8
0240 005	4 x 0,35	1.4 x 5.6	13.4	18.7
0240 006	5 x 0,35	1.4 x 7.0	16.8	23.0
0240 007	6 x 0,35	1.4 x 8.4	20.2	27.7
0240 008	7 x 0,35	1.4 x 9.8	23.5	32.3
0240 009	8 x 0,35	1.4 x 11.2	26.9	37.4
0240 010	9 x 0,35	1.4 x 12.6	30.2	41.5
0240 011	10 x 0,35	1.4 x 14.0	33.6	46.2
0240 012	11 x 0,35	1.4 x 15.4	37.0	50.8
0240 013	12 x 0,35	1.4 x 16.8	40.3	56.1
0240 014	20 x 0,35	1.4 x 28.0	67.2	93.6
0240 067	24 x 0,35	1.4 x 37.9	80.6	112.3
0240 016	4 x 0,50	1.94 x 7.76	19.2	32.2
0240 017	6 x 0,50	1.94 x 11.64	28.8	47.4
0240 018	8 x 0,50	1.94 x 15.52	38.4	63.2
0240 019	10 x 0,50	1.94 x 19.40	48.0	79.3
0240 020	12 x 0,50	1.94 x 23.28	57.6	95.2
0240 021	4 x 0,75	2.2 x 8.8	28.8	43.4
0240 022	6 x 0,75	2.2 x 13.2	43.2	65.1
0240 023	8 x 0,75	2.2 x 17.6	57.6	86.8
0240 024	12 x 0,75	2.2 x 26.4	86.4	130.1
0240 025	4 x 1,0	2.3 x 9.2	38.4	53.6
0240 026	12 x 1,0	2.3 x 27.6	115.2	161.0

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.