

- **The highly** advanced technology is applied to ribbon cable production, based i.a. on laser beams used in joining process. This system influences the precision of ready cable manufacturing and reduces the usage of harmful chemical compounds, making the product to be inodorous.
- **We offer flat cables** with 8, 10 or 12 conductors in form of ribbon. The cross-section diameters of conductor are, as follows :**0,12mm²; 0,22mm²; 0,35mm²; 0,50mm²; 0,75mm²; and 1,00mm².**
- **We use** the following standard colour configuration / arrangement : **red - blue - black - white - green - brown - yellow - red - blue - black - white - green.**
- **Each conductor** in ribbon cable is separately insulated with multicoloured insulation, made of special lead free thermoplastic PCV, ensuring its unusual bright lustre, softness and elasticity of ribbon cable.
They are manufactured in the system of thinning insulation provided they keep all dielectric & electric parameters. It makes their assembly easier, allowing more effective usage of cable bushing. Each conductor as well as ribbon cable at required quantity of cores, being necessary to assembly, can be easily separated from the cable rest (without any tools) .
- **The conductor** cores are in form of steadily twisted wires, made of thin, bare and soft copper wires at improved purity. It makes them to be easily fixed, as well as soldered and clamped.
- **Cables** are usually wined on reel discs containing **25 or 50 meters (for 0,75 and 1,00 mm – 25 meters, others – 50 meters).**
- **All discs** are wined evenly and compactly, which assures their perfect visual effect, makes easier their storage and prevents their uncontrolled rewinding. Each disc is additionally foiled with transparent shrinkable cover, preventing cable oxidation, insulation hardening and protecting against getting dirty of disc during its storage.
- **Working** temperature of cables is in the range from **– 40°C cent. till +105°C cent.**
- **Flat Ribbon Cables** are excellent for electronic, electrotechnical and electric industries. They are ideal for use in medical and automatic control engineering, automotive industry, telecommunication, computers, peripherals, interface units, audio and digital equipment, hobby, workshops and many others.
- **Using Flat Ribbon Cables** is simple, quick and cost-effective. They are saving time and money in comparison with other wiring methods.
- **Parameters** of all a/m products meet the requirements of international regulations & standards :**ISO 9001, ISO 14001, BASEC / British Standard/**. Our products also meet the **RoHS requirements according to 2002/95/WE European Directive and they are CE marked /** allowed to be used in EC countries, being free from additions of harmful substances in appreciable quantity, mainly lead, mercury, cadmium, chromium, hexavalent bromide, PBB,PBDE.

Cross section diameter & Quantity of cores standard	Size AWG system	Length wined on disc / meters /	Conductor core structure	Average outside diameter	Voltage rating maximum	Current rating maximum	Vein resistance in T=20°C maximum + minimum
8/10/12x0,12mm ²	AWG 26	50 mertów	7x0,15mm	Ø 1,3mm	300 V	1,2 A	155 - 139 m Ω/m
8/10/12x0,22mm ²	AWG 24	50 mertów	7x0,20mm	Ø 1,4mm	300 V	2,2 A	89,3 + 80,4 m Ω/m
8/10/12x0,35mm ²	AWG 22	50 mertów	12x0,20mm	Ø 1,5mm	500 V	3,5 A	52,0 + 47,8 m Ω/m
8/10/12x0,50mm ²	AWG 20	50 mertów	16x0,20mm	Ø 1,7mm	500 V	5,0 A	37,1 + 34,1 m Ω/m
8/10/12x0,75mm ²	AWG 18	25 mertów	24x0,20mm	Ø 2,0mm	500 V	7,5 A	24,7 + 22,7 m Ω/m
8/10/12x1,00mm ²	AWG 17	25 mertów	32x0,20mm	Ø 2,2mm	500 V	10,0 A	18,5 + 17,0 m Ω/m

Basic parameters

TLWY Ribbon Cables :

- **Quantity of cores standard and cross- section:**
 - 8/10/12 x 0,12mm²
 - 8/10/12 x 0,22mm²
 - 8/10/12 x 0,35mm²
 - 8/10/12 x 0,50mm²
 - 8/10/12 x 0,75mm²
 - 8/10/12 x 1,00mm²
- **Size AWG system :**
AWG 26/24/22/20/18/17
- **Number of per spool :**
 - For from 0,12mm² to 0,50mm²: 50 mb
 - For from 0,75mm² to 1,00mm²: 25 mb
- **Conductor core structure:**
 - For 0,12mm² - 8 x 0,14mm
 - For 0,22mm² - 7 x 0,20mm
 - For 0,35mm² - 12 x 0,20mm
 - For 0,50mm² - 16 x 0,20mm
 - For 0,75mm² - 24 x 0,20mm
 - For 1,00mm² - 32 x 0,20mm
- **Average outside diameter :**
 - For 0,12mm² - Ø 1,3mm
 - For 0,22mm² - Ø 1,4mm
 - For 0,35mm² - Ø 1,5mm
 - For 0,50mm² - Ø 1,7mm
 - For 0,75mm² - Ø 2,0mm
 - For 1,00mm² - Ø 2,2mm

Selected characteristics

- Copper wires in the form of twisted yarns combined with laser in the tape
- Extra flexibility and maneuverability at putting
- Easy solderability and susceptibility to crimping
- Isolation of a new generation of lead-free PVC
- Fully compatible with European requirements