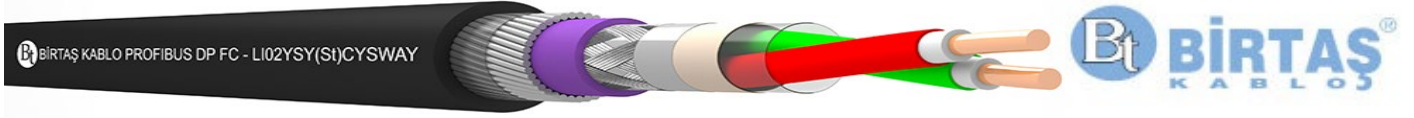


PROFIBUS DP L2/F.I.P – SWA/PVC

LI02YSY(St)CYSWAY

PVC KILIFLI , EKTRANLI, ZIRHLI BUS KABLOLARI

PVC SHEATHED, SCREENED, ARMOURED BUS CABLES



KULLANIM ALANI

Bu kablolar otomasyon sistemlerinin birbirleri arasındaki haberleşme ve yüksek hızlı veri iletimi (Max. 100 mt için 12 Mbit/sn.) için PROFIBUS (Process Field Bus) DP (Decentralized Peripherals), FMS (Fieldbus Message Specification), FIP (Factory Instrumentation Protocol) uygulamalarında kullanılır. Ayrıca üzerindeki iki kat ekran harici elektriksel gürültüye karşı daha fazla koruma sağlar. Üzerindeki zırh kabloyu mekanik darbelerle karşı korumaktadır. İç mekan ve dış mekan uygulamalarda, kuru ve ıslak ortamlarda; rafta, tavada, kanallarda kullanılır.

KABLO YAPISI

İletken	: Çıplak bakır tek tel, (AWG 22/1 : Ø0,64 mm)
İzolasyon	: Köpük-tabaka PE bileşik, EN 50290-2-23
Damar tanımlama	: Kırmızı – Yeşil renkli damarlar
Büküm	: İki damar beraber bükülür
Ayrıcı	: Polyester bant
İç kılıf	: PVC bileşik
Ekran	: Alüminyum polyester bant & Kalaylı bakır tel örgü
İç kılıf	: PVC bileşik, EN 50290-2-27, Mor
Zırh	: Galvenizli çelik tel, helisel
Ayrıcı	: Polyester bant
Dış kılıf	: PVC bileşik, EN 50290-2-22/TM51
Dış kılıf rengi	: ~RAL 9005, Siyah

TECHNICAL DATA @20°C

Standart	: DIN 19245 T3, IEC 61158-2
İletken direnci	: Max. 55 Ω/km
İzolasyon direnci	: Min. 1000 MΩ.km
Ortak kapasite	: Nom. 30 nF/km 150±15 Ω (Fitted)
Empedans	: @ 9,6 kHz 270 ± 27 Ω @ 38,4 kHz 185 ± 18 Ω @ 3~20 MHz 150 ± 15 Ω
Zayıflama	: @ 9,6 kHz ≤ 2,5 dB/km @ 38,4 kHz ≤ 4,0 dB/km @ 4 MHz ≤ 22,0 dB/km @ 16 MHz ≤ 42,0 dB/km
L/R oranı	: Max. 15 µH/Ω
Transfer empedans	: @20 Mhz: Max. 10 mΩ/m
Çalışma gerilimi	: Max. 250 V
Test gerilimi (AC 50 Hz)	: 1500 V
Çalışma sıcaklığı	: Fixed : - 40 °C ~ + 80 °C In installation : - 5 °C ~ + 50 °C
Min. bükülme yarıçapı	: 7,5 x D
Alev geciktirici test	: EN 60332-1-2 & IEC 60332-1-2
Yağ testi	: Acc. to EN 60811-404, & IEC 60811-404 EN 50290-2-22/TM54; 4 hours @70°C

EMC : Electromagnetic Compatibility

CE : Conform to 2014/35/EU (Low Voltage Directive)

Conform to 2011/65/EU & 2015/863 (RoHS Directives)

APPLICATION

These cables are used at communication of automation systems with each other and transmission of high speed datas for PROFIBUS (Process Field Bus) DP (Decentralized Peripherals), FMS (Fieldbus Message Specification), FIP (Factory Instrumentation Protocol) applications. (12 Mbit/sec for max. 100 mt, etc...). And also above it double overall screen provides more protection against external electrical interferences.. The armour protects the cable from mechanical shocks. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits..

CABLE DESIGN

Conductor	: Plain copper wire, solid, (AWG 22/1 : Ø0,64 mm)
Insulation	: Foam-skin PE compound, EN 50290-2-23
Core identification	: Red – Green coloured cores
Stranding	: Two cores twisted together
Separator	: Polyester tape
Inner sheath	: PVC compound, bedding
Screen	: Aluminium polyester tape & Tinned copper wires braiding
Inner sheath	: PVC compound, EN 50290-2-27, Violet
Armour	: Galvenised steel wires, helically
Separator	: Polyester tape
Outer sheath	: PVC bileşik, EN 50290-2-22/TM51
Sheath colour	: ~RAL 9005, Black

TECHNICAL DATA @20°C

Standard	: DIN 19245 T3, IEC 61158-2
Conductor resistance	: Max. 55 Ω/km
Insulation resistance	: Min. 1000 MΩ.km
Mutual capacitance	: Nom. 30 nF/km 150±15 Ω (Fitted)
Impedance	: @ 9,6 kHz 270 ± 27 Ω @ 38,4 kHz 185 ± 18 Ω @ 3~20 MHz 150 ± 15 Ω
Attenuation	: @ 9,6 kHz ≤ 2,5 dB/km @ 38,4 kHz ≤ 4,0 dB/km @ 4 MHz ≤ 22,0 dB/km @ 16 MHz ≤ 42,0 dB/km
L/R ratio	: Max. 15 µH/Ω
Transfer impedance	: @20 Mhz: Max. 10 mΩ/m
Operating voltage	: Max. 250 V
Test voltage (AC 50 Hz)	: 1500 V
Temperature range	: Fixed : - 40 °C ~ + 80 °C In installation : - 5 °C ~ + 50 °C
Min. bending radius	: 7,5 x D
Flame retardance test	: EN 60332-1-2 & IEC 60332-1-2
Oil resistant test	: Acc. to EN 60811-404, & IEC 60811-404 EN 50290-2-22/TM54; 4 hours @70°C

EMC : Electromagnetic Compatibility

CE : Conform to 2014/35/EU (Low Voltage Directive)

Conform to 2011/65/EU & 2015/863 (RoHS Directives)

PROFIBUS DP L2/F.I.P – SWA/PVC**LI02YSY(St)CYSWAY**

PVC KILIFLI , EKSPANLI, ZIRHLI BUS KABLOLARI

PVC SHEATHED, SCREENED, ARMOURED BUS CABLES

Kesitler / Cross Sections

Ürün kodu	Damar sayısı x Kesit	Yaklaşık Dış Çap	Bakır Ağırlığı	Yaklaşık Kablo Ağırlığı
Part-number	No. of cores x Cross section	Approx. Outer Diameter	Copper Weight	Approx. Cable Weight
	(mm)	(mm)	(kg/km)	(kg/km)
1125 01 201	1x2x0,64	12,70	19	325

*Dış çap toleransı / Diameter tolerance: \pm %7

**Diğer kesitler için lütfen sorunuz / Please ask for other cross-sections