

UNITRONIC® Li2YCYv (TP) 2x2x0,22**Article No.:** 0031350

Low-frequency data cable; 2X2X0.22; Core colour code: DIN 47100; PVC; Shielded; Flexible

**UK
CA CE****Details****Benefits**

- Low-capacitance core insulation for long transmission paths.
- Core marking according to DIN 47100 colour code for unambiguous identification of the single cores.
- Ideal protection against electromagnetic interference thanks to copper screening braiding with a high degree of coverage.
- The conductor circuits are well decoupled thanks to the twisted pair (TP) with short lay lengths.

Application

- Can be used universally at machine interfaces for many applications for data and signal transmission in the low-frequency range.
- For use in control, regulating and measurement circuits.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For occasional flexing.
- Can be used in dry, damp or wet environments.
- UV and oil-resistant material.
- Suitable for outdoor use, subject to the temperature range.

Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without surcharges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Remarks

Technical Data

General information

Brand	UNITRONIC®
Product type	Low-frequency data cable
Weight	79 kg/km
Copper index	24.2 kg/km

Electrical parameters

test voltage conductor/conductor	2 kV
Test voltage core/screening	1 kV
Max. conductor resistance at 20°C	93 Ω/km
Mutual capacitance core/core (800Hz), approx.	60 nF/km
Mutual capacitance core/shield (800Hz), approx.	93 nF/km
Inductance (800 Hz), approx.	0.755 mH/km

Product design

Li-stranded cables	Li2YCY (TP)
Cable dimension	2X2X0.22
Conductor cross-section (mm ²)	0.22 mm ²
Conductor material	Bare Copper
Conductor design	7-wire

Including protective conductor	No
Number of pairs	2
Stranding type	Twisted-pair
Shielded	Yes
Type of overall screen	Tin-plated copper braiding
Nominal outer diameter	8.1 mm
Shape of cable	Round
Core insulation base material	Polyethylene
Core insulation base material, shortname	PE
Base material of outer sheath	Polyvinylchloride
Base material of outer sheath, shortname	PVC
With reinforced cable insulation	Yes
Cable sheath colour	black
Cable insulation RAL colour	RAL 9005
Core identification	Colours
Core colour code	DIN 47100

Product features

Application area	Flexible Fixed Installation
Minimum bending radius, fixed installation	6 x outer diameter
Minimum bending radius in mm, stationary	48.6 mm
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally flexing	121.5 mm
Temperature, fixed installation	-40 °C to 80 °C
Temperature, occasionally moved	-5 °C to 70 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
UV-resistant	Yes
Halogenfree	No
Oil-resistant	No

PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Low capacitance	Yes

Certifications and standards

CE marked	Yes
UKCA marked	Yes
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
VDE certified	No
Flame retardance tested according to UN /ECE-R118	No

UNITRONIC® Li2YCYv (TP)

Article No.	Name	Number of pairs	Conductor cross-section (mm ²)	Nominal outer diameter	Copper index	Weight
0031350	UNITRONIC® Li2YCYv (TP) 2x2x0,22	2	0.22 mm ²	8.1 mm	24.2 kg/km	79 kg/km
0031351	UNITRONIC® Li2YCYv (TP) 3x2x0,22	3	0.22 mm ²	8.7 mm	28.6 kg/km	93 kg/km
0031352	UNITRONIC® Li2YCYv (TP) 4x2x0,22	4	0.22 mm ²	8.9 mm	34.2 kg/km	100 kg/km
0031353	UNITRONIC® Li2YCYv (TP) 8x2x0,22	8	0.22 mm ²	10.7 mm	70 kg/km	156 kg/km
0031354	UNITRONIC® Li2YCYv (TP) 10x2x0,22	10	0.22 mm ²	12 mm	76 kg/km	185 kg/km
0031355	UNITRONIC® Li2YCYv (TP) 2x2x0,34	2	0.34 mm ²	9.3 mm	34.1 kg/km	102 kg/km
0031356	UNITRONIC® Li2YCYv (TP) 3x2x0,34	3	0.34 mm ²	10 mm	43 kg/km	117 kg/km
0031357	UNITRONIC® Li2YCYv (TP) 4x2x0,34	4	0.34 mm ²	10.3 mm	52.8 kg/km	130 kg/km
0031358	UNITRONIC® Li2YCYv (TP) 8x2x0,34	8	0.34 mm ²	12.6 mm	85.8 kg/km	206 kg/km
0031360	UNITRONIC® Li2YCYv (TP) 2x2x0,5	2	0.5 mm ²	10.1 mm	37 kg/km	120 kg/km
0031361	UNITRONIC® Li2YCYv (TP) 3x2x0,5	3	0.5 mm ²	10.9 mm	55 kg/km	142 kg/km
0031362	UNITRONIC® Li2YCYv (TP) 4x2x0,5	4	0.5 mm ²	11.2 mm	60 kg/km	155 kg/km
0031363	UNITRONIC® Li2YCYv (TP) 8x2x0,5	8	0.5 mm ²	13.9 mm	113.3 kg/km	251 kg/km
0031364	UNITRONIC® Li2YCYv (TP) 10x2x0,5	10	0.5 mm ²	16 mm	148 kg/km	303 kg/km
0031365	UNITRONIC® Li2YCYv (TP) 1x2x0,34	1	0.34 mm ²	7.4 mm	20 kg/km	69 kg/km
0031366	UNITRONIC® Li2YCYv (TP) 1x2x0,5	1	0.5 mm ²	7.9 mm	29 kg/km	79 kg/km