

UNITRONIC® LiYY 5x0,14**Article No.:** 0028205

Low-frequency data cable; 5X0.14; Conductor colour code: DIN 47100; PVC; Flexible

**Details****Benefits**

- Numerous dimensions available for wide range of applications.
- Compact design enables small outer diameters despite high number of cores.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.

Application

- Can be used universally at machine interfaces for many applications for data and signal transmission in the low-frequency range.
- Suitable for computer systems, electronic control and regulation devices, office machines, scales, etc.
- For fixed installation.
- Can be used in dry and damp spaces.
- Suitable for light mechanical stress.
- The PVC outer sheath is somewhat oil-resistant.

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.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

Remarks

Technical Data

General information

Brand	UNITRONIC®
Product type	Low-frequency data cable
Weight	22 kg/km
Copper index	6.72 kg/km

Electrical parameters

Test voltage	1.2 kV
Max. conductor resistance at 20°C	138 Ω/km
Mutual capacitance core/core (800Hz), approx.	108 nF/km
Inductance (800 Hz), approx.	0.724 mH/km

Product design

Li-stranded cables	LiYY
Cable dimension	5X0.14
Conductor cross-section (mm ²)	0.14 mm ²
Conductor material	Bare copper
Conductor design	fine-wire
Including protective conductor	No
Number of cores	5
Stranding type	Layered stranding

Shielded	No
Nominal outer diameter	3.9 mm
Shape of cable	Round
Core insulation base material	Polyvinylchloride
Core insulation base material, shortname	PVC
Base material of outer sheath	Polyvinylchloride
Base material of outer sheath, shortname	PVC
Cable sheath colour	grey
Core identification	Colours
Core colour code	DIN 47100

Product features

Application area	Flexible Fixed installation
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in mm, fixed installation	15.6 mm
Minimum bending radius, occasionally moved	10 x outer diameter
Minimum bending radius in mm, occasionally flexing	39 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	No
Halogenfree	No
Oil-resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L

Certifications and standards

CE marked	Yes
EAC-certified	Yes

EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
VDE certified	No
CPR fire class	Eca
Flame retardance tested according to UN /ECE-R118	No

UNITRONIC® LiYY

Article No.	Name	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter	Copper index	Weight
0028202	UNITRONIC® LiYY 2x0,14	2	0.14 mm ²	3.2 mm	2.7 kg/km	13 kg/km
0028203	UNITRONIC® LiYY 3x0,14	3	0.14 mm ²	3.4 mm	4.05 kg/km	16 kg/km
0028204	UNITRONIC® LiYY 4x0,14	4	0.14 mm ²	3.6 mm	5.4 kg/km	18 kg/km
0028205	UNITRONIC® LiYY 5x0,14	5	0.14 mm ²	3.9 mm	6.72 kg/km	22 kg/km
0028207	UNITRONIC® LiYY 7x0,14	7	0.14 mm ²	4.2 mm	9.45 kg/km	28 kg/km
0028208	UNITRONIC® LiYY 8x0,14	8	0.14 mm ²	4.9 mm	10.2 kg/km	35 kg/km
0028210	UNITRONIC® LiYY 10x0,14	10	0.14 mm ²	5.2 mm	13.5 kg/km	41 kg/km
0028212	UNITRONIC® LiYY 12x0,14	12	0.14 mm ²	5.6 mm	16.2 kg/km	48 kg/km
0028214	UNITRONIC® LiYY 14x0,14	14	0.14 mm ²	5.8 mm	18.9 kg/km	52 kg/km
0028216	UNITRONIC® LiYY 16x0,14	16	0.14 mm ²	6.1 mm	21.6 kg/km	59 kg/km
0028220	UNITRONIC® LiYY 20x0,14	20	0.14 mm ²	7 mm	27 kg/km	70 kg/km
0028225	UNITRONIC® LiYY 25x0,14	25	0.14 mm ²	7.8 mm	33.6 kg/km	87 kg/km
0028236	UNITRONIC® LiYY 36x0,14	36	0.14 mm ²	8.6 mm	48.6 kg/km	126 kg/km
0028237	UNITRONIC® LiYY 37x0,14	37	0.14 mm ²	8.9 mm	49.7 kg/km	118 kg/km
0028240	UNITRONIC® LiYY 40x0,14	40	0.14 mm ²	9.3 mm	54 kg/km	139 kg/km
0028250	UNITRONIC® LiYY 50x0,14	50	0.14 mm ²	10.4 mm	67.5 kg/km	170 kg/km
0028256	UNITRONIC® LiYY 56x0,14	56	0.14 mm ²	10.7 mm	78.4 kg/km	187 kg/km
0028302	UNITRONIC® LiYY 2x0,25	2	0.25 mm ²	3.8 mm	4.8 kg/km	18 kg/km
0028303	UNITRONIC® LiYY 3x0,25	3	0.25 mm ²	4 mm	7.2 kg/km	22 kg/km
0028304	UNITRONIC® LiYY 4x0,25	4	0.25 mm ²	4.3 mm	9.6 kg/km	26 kg/km
0028305	UNITRONIC® LiYY 5x0,25	5	0.25 mm ²	4.7 mm	12 kg/km	31 kg/km
0028306	UNITRONIC® LiYY 6x0,25	6	0.25 mm ²	5.1 mm	14.4 kg/km	42 kg/km
0028307	UNITRONIC® LiYY 7x0,25	7	0.25 mm ²	5.1 mm	16.8 kg/km	42 kg/km
0028308	UNITRONIC® LiYY 8x0,25	8	0.25 mm ²	6.2 mm	19.2 kg/km	49 kg/km
0028310	UNITRONIC® LiYY 10x0,25	10	0.25 mm ²	6.8 mm	24 kg/km	58 kg/km
0028312	UNITRONIC® LiYY 12x0,25	12	0.25 mm ²	7 mm	28.8 kg/km	67 kg/km
0028314	UNITRONIC® LiYY 14x0,25	14	0.25 mm ²	7.3 mm	33.6 kg/km	75 kg/km
0028316	UNITRONIC® LiYY 16x0,25	16	0.25 mm ²	7.7 mm	38.4 kg/km	84 kg/km
0028318	UNITRONIC® LiYY 18x0,25	18	0.25 mm ²	8.1 mm	43.2 kg/km	93 kg/km
0028320	UNITRONIC® LiYY 20x0,25	20	0.25 mm ²	8.6 mm	48 kg/km	102 kg/km

Article No.	Name	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter	Copper index	Weight
0028325	UNITRONIC® LiYY 25x0,25	25	0.25 mm ²	9.6 mm	60 kg/km	134 kg/km
0028330	UNITRONIC® LiYY 30x0,25	30	0.25 mm ²	10.3 mm	72 kg/km	155 kg/km
0028332	UNITRONIC® LiYY 32x0,25	32	0.25 mm ²	10.7 mm	76.8 kg/km	164 kg/km
0028336	UNITRONIC® LiYY 36x0,25	36	0.25 mm ²	11.1 mm	86.4 kg/km	182 kg/km
0028337	UNITRONIC® LiYY 37x0,25	37	0.25 mm ²	11.4 mm	88.8 kg/km	185 kg/km
0028340	UNITRONIC® LiYY 40x0,25	40	0.25 mm ²	12 mm	96.1 kg/km	200 kg/km
0028350	UNITRONIC® LiYY 50x0,25	50	0.25 mm ²	12.9 mm	120 kg/km	257 kg/km
0028402	UNITRONIC® LiYY 2x0,34	2	0.34 mm ²	4.2 mm	6.6 kg/km	25 kg/km
0028403	UNITRONIC® LiYY 3x0,34	3	0.34 mm ²	4.4 mm	9.9 kg/km	31 kg/km
0028404	UNITRONIC® LiYY 4x0,34	4	0.34 mm ²	4.8 mm	13.1 kg/km	43 kg/km
0028405	UNITRONIC® LiYY 5x0,34	5	0.34 mm ²	5.5 mm	16.5 kg/km	53 kg/km
0028406	UNITRONIC® LiYY 6x0,34	6	0.34 mm ²	5.9 mm	19.6 kg/km	53 kg/km
0028407	UNITRONIC® LiYY 7x0,34	7	0.34 mm ²	5.9 mm	22.8 kg/km	62 kg/km
0028408	UNITRONIC® LiYY 8x0,34	8	0.34 mm ²	7.1 mm	26.1 kg/km	73 kg/km
0028410	UNITRONIC® LiYY 10x0,34	10	0.34 mm ²	7.6 mm	32.6 kg/km	82 kg/km
0028412	UNITRONIC® LiYY 12x0,34	12	0.34 mm ²	7.8 mm	39.1 kg/km	102 kg/km
0028414	UNITRONIC® LiYY 14x0,34	14	0.34 mm ²	8.2 mm	45.7 kg/km	109 kg/km
0028416	UNITRONIC® LiYY 16x0,34	16	0.34 mm ²	8.7 mm	52 kg/km	127 kg/km
0028420	UNITRONIC® LiYY 20x0,34	20	0.34 mm ²	9.6 mm	65.2 kg/km	159 kg/km
0028421	UNITRONIC® LiYY 21x0,34	21	0.34 mm ²	10.4 mm	68.6 kg/km	167 kg/km
0028425	UNITRONIC® LiYY 25x0,34	25	0.34 mm ²	11.2 mm	81.6 kg/km	190 kg/km
0028430	UNITRONIC® LiYY 30x0,34	30	0.34 mm ²	11.6 mm	98 kg/km	226 kg/km
0028436	UNITRONIC® LiYY 36x0,34	36	0.34 mm ²	12.5 mm	118 kg/km	284 kg/km
0028440	UNITRONIC® LiYY 40x0,34	40	0.34 mm ²	13.5 mm	131 kg/km	317 kg/km
0028450	UNITRONIC® LiYY 50x0,34	50	0.34 mm ²	15 mm	163 kg/km	407 kg/km
0028502	UNITRONIC® LiYY 2x0,5	2	0.5 mm ²	4.7 mm	9.6 kg/km	30 kg/km
0028503	UNITRONIC® LiYY 3x0,5	3	0.5 mm ²	5 mm	14.4 kg/km	39 kg/km
0028504	UNITRONIC® LiYY 4x0,5	4	0.5 mm ²	5.6 mm	19.2 kg/km	49 kg/km
0028505	UNITRONIC® LiYY 5x0,5	5	0.5 mm ²	6.1 mm	24 kg/km	65 kg/km
0028507	UNITRONIC® LiYY 7x0,5	7	0.5 mm ²	6.9 mm	33.6 kg/km	82 kg/km

Article No.	Name	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter	Copper index	Weight
0028508	UNITRONIC® LiYY 8x0,5	8	0.5 mm ²	8 mm	38.4 kg/km	90 kg/km
0028510	UNITRONIC® LiYY 10x0,5	10	0.5 mm ²	8.6 mm	48 kg/km	117 kg/km
0028512	UNITRONIC® LiYY 12x0,5	12	0.5 mm ²	8.9 mm	58 kg/km	133 kg/km
0028516	UNITRONIC® LiYY 16x0,5	16	0.5 mm ²	10.2 mm	77 kg/km	170 kg/km
0028520	UNITRONIC® LiYY 20x0,5	20	0.5 mm ²	11.4 mm	96 kg/km	214 kg/km
0028525	UNITRONIC® LiYY 25x0,5	25	0.5 mm ²	12.7 mm	120 kg/km	265 kg/km
0028530	UNITRONIC® LiYY 30x0,5	30	0.5 mm ²	13.2 mm	144 kg/km	304 kg/km
0028540	UNITRONIC® LiYY 40x0,5	40	0.5 mm ²	15.8 mm	192 kg/km	392 kg/km
0028602	UNITRONIC® LiYY 2x0,75	2	0.75 mm ²	5.1 mm	14.4 kg/km	48 kg/km
0028603	UNITRONIC® LiYY 3x0,75	3	0.75 mm ²	5.6 mm	21.6 kg/km	57 kg/km
0028604	UNITRONIC® LiYY 4x0,75	4	0.75 mm ²	6.1 mm	28.8 kg/km	69 kg/km
0028605	UNITRONIC® LiYY 5x0,75	5	0.75 mm ²	6.9 mm	36 kg/km	78 kg/km
0028607	UNITRONIC® LiYY 7x0,75	7	0.75 mm ²	7.5 mm	50 kg/km	112 kg/km
0028608	UNITRONIC® LiYY 8x0,75	8	0.75 mm ²	8.7 mm	58 kg/km	126 kg/km
0028610	UNITRONIC® LiYY 10x0,75	10	0.75 mm ²	9.4 mm	72 kg/km	149 kg/km
0028612	UNITRONIC® LiYY 12x0,75	12	0.75 mm ²	10.1 mm	86 kg/km	176 kg/km
0028616	UNITRONIC® LiYY 16x0,75	16	0.75 mm ²	11.2 mm	115 kg/km	218 kg/km
0028620	UNITRONIC® LiYY 20x0,75	20	0.75 mm ²	12.4 mm	144 kg/km	274 kg/km
0028625	UNITRONIC® LiYY 25x0,75	25	0.75 mm ²	14 mm	180 kg/km	320 kg/km
0028702	UNITRONIC® LiYY 2x1	2	1 mm ²	5.6 mm	19.2 kg/km	55 kg/km
0028703	UNITRONIC® LiYY 3x1	3	1 mm ²	5.9 mm	29 kg/km	70 kg/km
0028704	UNITRONIC® LiYY 4X1	4	1 mm ²	6.4 mm	38.4 kg/km	79 kg/km
0028705	UNITRONIC® LiYY 5x1	5	1 mm ²	7.3 mm	48 kg/km	98 kg/km
0028802	UNITRONIC® LiYY 2x1,5	2	1.5 mm ²	6.2 mm	29 kg/km	74 kg/km
0028803	UNITRONIC® LiYY 3x1,5	3	1.5 mm ²	6.8 mm	43 kg/km	89 kg/km
0028804	UNITRONIC® LiYY 4x1,5	4	1.5 mm ²	7.4 mm	58 kg/km	105 kg/km

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