

The data cable according to DIN colour code 47100



Application

UNITRONIC® LiYY are data transmission cables, which have been developed of proven types and based on the specification VDE 0812. They are also used as control and signal cables in electronics of computer systems, electronic control equipment, scales, etc.

Special Feature

The robust outer sheath gives strength to the cable as well as high flexibility. Despite the large number of conductors, UNITRONIC® LiYY data transmission cables have small outer diameters. UNITRONIC® LiYY data transmission cables have coloured cores coded in acc. to DIN 47100, see page T9, but without colour repetition.

Note

Special outer sheath colours on request (minimum quantities!). About deviations to the standard range, for example cores, outer sheaths, special screening techniques and extended temperature ranges, please consult our technical adviser.

Cable Make-up

Fine or multi-wire (0,34 mm²) strands of plain copper wires, PVC- based core insulation, cores twisted in pairs, various colours acc. to DIN colour code, outer sheath of special PVC-based compound, flame-retardant according to VDE 0482, part 265-2-1/ IEC 60332-1 (acc. to VDE 0472 part 804 test type b), pebble grey (RAL 7032).

Technical Data

Minimum bending radius for flexing: 15 x cable diameter

Temperature range: static: -30 °C up to +80 °C

Conductor stranding: strands, fine wire 0,34 mm² 7-wire

Core ident code: DIN 47100, chart T9, without colour repetition

Conductor resistance: see chart T11

Insulation: specific insulation resistance: > 20 GOhm x cm

Mutual capacitance: approx. 120 nF/km

Inductance: approx. 0,65 mH/km

Peak working voltage: (not for purposes of power/ highvoltage current) 250 V

Test voltage: 0,14 mm²: 1200 V > 0,14 mm²: 1500 V

In accordance to: VDE 0812

Part number	No. of cores and mm ² per conductor	Approx. outside diameter in mm	Copper weight kg/km	Approx. weight kg/km	Part number	No. of cores and mm ² per conductor	Approx. outside diameter in mm	Copper weight kg/km	Approx. weight kg/km
UNITRONIC® LiYY					0028 330	30 x 0,25	10,3	72,0	155,0
0028 202	2 x 0,14	3,2	2,7	13,2	0028 332	32 x 0,25	10,7	76,8	164,0
0028 203	3 x 0,14	3,4	4,5	16,0	0028 336	36 x 0,25	11,1	86,4	182,2
0028 204	4 x 0,14	3,6	5,4	18,9	0028 337	37 x 0,25	11,4	88,8	185,0
0028 205	5 x 0,14	3,9	6,7	22,2	0028 340	40 x 0,25	12,0	96,1	200,0
0028 207	7 x 0,14	4,2	9,4	28,4	0028 350	50 x 0,25	12,9	120,0	257,1
0028 208	8 x 0,14	4,9	10,8	35,2	0028 361	61 x 0,25	13,7	146,4	305,2
0028 210	10 x 0,14	5,2	13,5	41,2					
0028 212	12 x 0,14	5,6	16,2	48,4	0028 402	2 x 0,34	4,2	6,6	22,2
0028 214	14 x 0,14	5,8	18,9	52,9	0028 403	3 x 0,34	4,4	9,8	31,0
0028 216	16 x 0,14	6,1	21,6	59,1	0028 404	4 x 0,34	4,8	13,1	43,2
0028 220	20 x 0,14	7,0	27,0	70,8	0028 405	5 x 0,34	5,5	16,3	53,8
0028 221	21 x 0,14	7,2	28,4	76,9	0028 407	7 x 0,34	5,9	22,8	62,0
0028 225	25 x 0,14	7,8	33,6	87,2	0028 408	8 x 0,34	7,1	26,1	73,1
0028 228	28 x 0,14	7,8	37,8	103,2	0028 410	10 x 0,34	7,6	32,6	82,0
0028 230	30 x 0,14	8,0	40,5	108,4	0028 412	12 x 0,34	7,8	39,2	102,0
0028 236	36 x 0,14	8,6	48,6	126,8	0028 414	14 x 0,34	8,2	45,7	109,0
0028 237	37 x 0,14	8,9	49,7	118,0	0028 416	16 x 0,34	8,7	52,0	127,0
0028 240	40 x 0,14	9,3	54,0	139,1	0028 420	20 x 0,34	9,6	65,2	159,3
0028 244	44 x 0,14	9,6	59,4	152,9	0028 421	21 x 0,34	10,4	69,0	167,0
0028 250	50 x 0,14	10,4	67,5	170,9	0028 425	25 x 0,34	11,2	81,6	190,0
0028 256	56 x 0,14	10,7	75,2	187,0	0028 430	30 x 0,34	11,6	98,0	226,0
					0028 432	32 x 0,34	12,1	104,4	245,0
0028 302	2 x 0,25	3,8	4,8	18,0	0028 436	36 x 0,34	12,5	118,0	284,0
0028 303	3 x 0,25	4,0	7,2	22,0	0028 440	40 x 0,34	13,5	131,0	317,0
0028 304	4 x 0,25	4,3	9,6	26,2	0028 450	50 x 0,34	15,0	163,0	407,0
0028 305	5 x 0,25	4,7	12,0	31,0					
0028 307	7 x 0,25	5,1	16,8	42,0	0028 502	2 x 0,5	4,7	9,6	40,0
0028 308	8 x 0,25	6,2	19,2	49,2	0028 503	3 x 0,5	5,0	14,4	47,0
0028 310	10 x 0,25	6,8	24,0	58,0	0028 504	4 x 0,5	5,6	19,2	56,0
0028 312	12 x 0,25	7,0	28,8	67,0	0028 505	5 x 0,5	6,1	24,0	65,0
0028 314	14 x 0,25	7,3	33,6	75,3	0028 507	7 x 0,5	6,9	33,6	82,0
0028 316	16 x 0,25	7,7	38,4	84,3	0028 508	8 x 0,5	8,0	38,4	90,0
0028 318	18 x 0,25	8,1	43,2	93,0	0028 510	10 x 0,5	8,6	48,0	117,0
0028 320	20 x 0,25	8,6	48,0	102,0	0028 512	12 x 0,5	8,9	58,0	133,0
0028 325	25 x 0,25	9,6	60,0	134,0	0028 516	16 x 0,5	10,2	77,0	170,0

No cutting charge for standard stock units (50, 100, 250, 500, 1000 m).
Please declare us your desired design (e.g. 1 x 500 m drum or 5 x 100 rings).
Rings < 30 kg, beyond automatically drums.