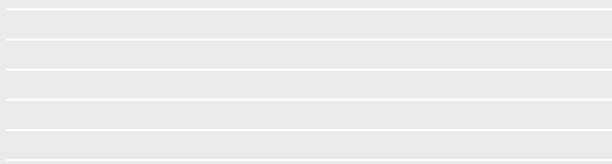


Li2YCY PIMF



APPLICATION

Wiring of data systems and industrial-scale plant regulating transmission of sensitive signals and high bitrates for enhanced requirements on the near-end crosstalk attenuation as well as high electrical interference in the circuits. For measurement readings transmission and serial 2-wire interfaces. Partly applicable for flexible use as well as for fixed installation in dry and moist rooms. 7-wire strand for MAXI-TERMI-POINT® wiring. Low-capacity data cable. Pair screen and copper braid screen.

STANDARDS

flame-resistant acc. to IEC 60332-1-2

CONSTRUCTION

Conductor: copper strand, bare, 7-wired or fine-wired respectively

Core insulation: PE

Core identification: acc. to DIN 47100

Core stranding: cores twinned to pairs, screened pairs twisted to layers

Pair screening: drain wire, plastic-laminated aluminium foil

Lapping: plastic foil

Screen: tinned copper wire braid (visual covering appr. 80%)

Sheath: PVC; colour: grey RAL 7032

ELECTRICAL CHARACTERISTICS

Inductance ca. 0,4 mH/km

Insulation resistance min. 5 GΩ x km

Characteristic impedance ≥ 1 MHz, ca. 85 Ω

Mutual capacit. (800 Hz) 0,22/0,34 mm² max. 70 nF/km

Mutual capacitance (800 Hz) 0,50 mm² max. 75 nF/km

Mutual capacitance (800 Hz) 1,00 mm² max. 85 nF/km

near-end Crosstalk attenuation ≤ 1 MHz min. 80 dB

Peak operating voltage 250 V

dimension	diameter appr. mm	cable weight ca. kg/km	copper index kg/km
7-wired			
2 x 2 x 0,22	7,7	75,4	33
3 x 2 x 0,22	8,1	86	42
4 x 2 x 0,22	8,7	99	50
8 x 2 x 0,22	10,9	161,4	85
10 x 2 x 0,22	12,0	186,4	100
2 x 2 x 0,34	9,0	70	43
3 x 2 x 0,34	9,4	85	55
4 x 2 x 0,34	9,8	103	64
8 x 2 x 0,34	12,9	191	127
10 x 2 x 0,34	14,9	230	150
2 x 2 x 0,50	9,9	96	51
3 x 2 x 0,50	10,4	116	66
4 x 2 x 0,50	11,3	141	71
5 x 2 x 0,50	11,8	180	92
8 x 2 x 0,50	14,5	271	153
10 x 2 x 0,50	16,6	327	182
fine-wired			
2 x 2 x 1,00	11,7	126	82
3 x 2 x 1,00	11,8	156	109
4 x 2 x 1,00	12,7	193	133
10 x 2 x 1,00	19,7	492	326

Test voltage core-core	2000 V
Test voltage core-screen	1000 V

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +70°C
Temperature range stationary	-30°C to +80°C
Minimum bending radius stationary	10 x diameter