LI2YCY-TP

-40°C to +80°C, 250V



Construction
Conductor: Flexible Bare Copper · 7-wire / Class 5 stranded
Core Insulation: Extruded · PE
Cabling: Twisted · Cores twisted into pairs (TP), pairs laid up in layers
Core Identification: Color-coded twisted pairs according to DIN 47100
Binder: Plastic foil wrapping
Shield: Braid · Tinned Copper Braid
Jacket: Extruded (Pebble Grey RAL 7032) · PVC

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Operating Temperature Range: Fixed installation: -40°C to +80°C · Occasional flexing: -5°C to +70°C.

Electrical Characteristics
Operating Voltage: 250V
Test Voltage: 1500V
Characteristic Impedance & Capacitance: Characteristic impedance approx. 100 Ω · Mutual capacitance approx. 60 nF/km at 800 Hz.

Application
RS-422 / RS-485 & Differential Signal Transmission: Long-distance serial communication, encoder feedback, PLC interfaces, and industrial instrumentation requiring low capacitance and high noise immunity.

General Characteristics
Low-Capacitance PE Insulation for Long-Distance Serial Data: Polyethylene (2Y) core insulation achieves low mutual capacitance (~60 nF/km) for distortion-free RS-422 and RS-485 transmission.
Decoupled Twisted Pairs & Overall EMC Screen: Short-lay twisted pairs minimize near-end crosstalk while the tinned copper braid shields against external EMI.

Standards & Approvals
DIN VDE 0812: Low-capacitance paired data transmission cable.
DIN 47100: Paired color identification per DIN 47100.

Fire Performance
Fire Performance: IEC 60332-1-2

CASMO Part No.	Core Configuration	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LI2YCY-TP-1X2X0.22	1 × 2	0.22	5.1	14	31
LI2YCY-TP-2X2X0.22	2 × 2	0.22	6.5	22	49
LI2YCY-TP-3X2X0.22	3 × 2	0.22	7.1	29	62
LI2YCY-TP-4X2X0.22	4 × 2	0.22	7.6	36	76
LI2YCY-TP-8X2X0.22	8 × 2	0.22	10.3	66	138
LI2YCY-TP-10X2X0.22	10 × 2	0.22	11.4	80	168
LI2YCY-TP-1X2X0.34	1 × 2	0.34	5.6	17	38
LI2YCY-TP-2X2X0.34	2 × 2	0.34	7.3	28	61
LI2YCY-TP-3X2X0.34	3 × 2	0.34	8	38	79
LI2YCY-TP-4X2X0.34	4 × 2	0.34	8.6	48	96
LI2YCY-TP-8X2X0.34	8 × 2	0.34	11.6	88	176
LI2YCY-TP-1X2X0.5	1 × 2	0.5	6.3	21	49

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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CABLES FOR EXTREMES

LI2YCY-TP

-40°C to +80°C, 250V



CASMO Part No.	Core Configuration	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LI2YCY-TP-2X2X0.5	2 × 2	0.5	8.3	38	81
LI2YCY-TP-3X2X0.5	3 × 2	0.5	9.1	51	104
LI2YCY-TP-4X2X0.5	4 × 2	0.5	9.9	64	128
LI2YCY-TP-8X2X0.5	8 × 2	0.5	13.5	118	236

Table Notes

* Pair color coding according to DIN 47100 (Pair 1: White/Brown, Pair 2: Green/Yellow, Pair 3: Grey/Pink, Pair 4: Blue/Red, etc.).

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
1	White	10	Violet	19	White/Pink
2	Brown	11	Grey/Pink	20	Pink/Brown
3	Green	12	Red/Blue	21	White/Blue
4	Yellow	13	White/Green	22	Brown/Blue
5	Grey	14	Brown/Green	23	White/Red
6	Pink	15	White/Yellow	24	Brown/Red
7	Blue	16	Yellow/Brown	25	White/Black
8	Red	17	White/Grey		
9	Black	18	Grey/Brown		

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