LIY11Y

-40°C to +80°C, 500V



Construction
Conductor: Flexible Bare Copper · IEC 60228 Class 5
Core Insulation: Extruded · PVC
Cabling: Laid Up · Cores twisted in short lay lengths
Core Identification: Color-coded according to DIN 47100
Jacket: Extruded (Black RAL 9005) · TPU (Polyurethane)

Thermal Characteristics
Operating Temperature: -40°C to +80°C
Operating Temperature Range: Fixed installation: -40°C to +80°C · Flexing / mobile use: -15°C to +70°C.

Electrical Characteristics
Operating Voltage: 500V
Test Voltage: 1500V

Application
Industrial Sensors, Actuators & Portable Equipment: Connection cable for proximity switches, encoders, handheld pendants, and machine tools exposed to oils and mechanical abrasion.

General Characteristics
Abrasion, Cut & Notch Resistant PUR Outer Sheath: Polyurethane (11Y / TPU) outer jacket withstands severe mechanical wear, flexing, and sharp edges on shop floors.
Oil, Coolant & Hydrolysis Resistance: Resists mineral oils, cutting emulsions, hydraulic fluids, microbes, and UV exposure.

Standards & Approvals
DIN VDE 0812 / VDE 0250: Flexible control and sensor cable with polyurethane (11Y) outer sheath.
DIN 47100: Core color identification per DIN 47100.

CASMO Part No.	Total Cores	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LIY11Y-2X0.14	2	0.14	3.5	2.7	15
LIY11Y-3X0.14	3	0.14	3.7	4	18
LIY11Y-4X0.14	4	0.14	3.9	5.4	22
LIY11Y-5X0.14	5	0.14	4.2	6.7	26
LIY11Y-7X0.14	7	0.14	4.5	9.4	33
LIY11Y-2X0.25	2	0.25	4	4.8	21
LIY11Y-3X0.25	3	0.25	4.2	7.2	25
LIY11Y-4X0.25	4	0.25	4.5	9.6	30
LIY11Y-5X0.25	5	0.25	4.9	12	36
LIY11Y-7X0.25	7	0.25	5.3	16.8	46
LIY11Y-8X0.25	8	0.25	6.1	19.2	54
LIY11Y-12X0.25	12	0.25	6.9	28.8	74
LIY11Y-2X0.34	2	0.34	4.3	6.5	25
LIY11Y-3X0.34	3	0.34	4.5	9.8	30
LIY11Y-4X0.34	4	0.34	4.9	13.1	37
LIY11Y-5X0.34	5	0.34	5.4	16.3	44

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CASMO Part No.	Total Cores	Conductor Size (mm²)	Nom. O.D. (mm)	Nom. Copper Weight (kg/km)	Nom. Cable Weight (kg/km)
LIY11Y-7X0.34	7	0.34	5.9	22.8	56
LIY11Y-12X0.34	12	0.34	7.6	39.2	92
LIY11Y-2X0.5	2	0.5	4.8	9.6	31
LIY11Y-3X0.5	3	0.5	5.1	14.4	39
LIY11Y-4X0.5	4	0.5	5.6	19.2	48
LIY11Y-5X0.5	5	0.5	6.1	24	58
LIY11Y-7X0.5	7	0.5	6.7	33.6	75
LIY11Y-12X0.5	12	0.5	8.7	57.6	124
LIY11Y-2X0.75	2	0.75	5.3	14.4	39
LIY11Y-3X0.75	3	0.75	5.6	21.6	49
LIY11Y-4X0.75	4	0.75	6.2	28.8	61
LIY11Y-5X0.75	5	0.75	6.8	36	74
LIY11Y-7X0.75	7	0.75	7.4	50.4	98
LIY11Y-2X1	2	1	5.6	19.2	46
LIY11Y-4X1	4	1	6.6	38.4	74
LIY11Y-4X1.5	4	1.5	7.4	57.6	102

Table Notes

* Core identification according to DIN 47100 (see Color Code Chart below). Oil-resistant PUR/TPU outer sheath.

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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