

Li9Y1 IY Cable
0.25mm² to 0.75mm²
PUR Sheath



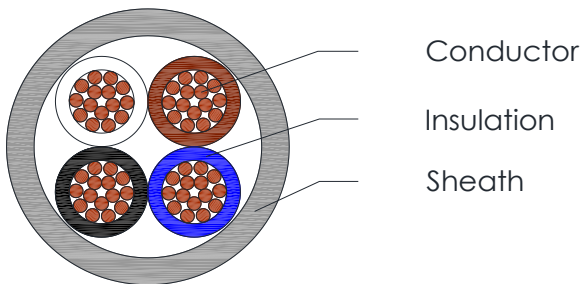
C6160 TO C6171

Applications

For decentralised installation and control technology. These cables are used in connector systems for sensors and actuators. In combination with injected circular connectors and installed actuator sensor boxes, they constitute an important connecting element between the periphery and the PLC in production systems.

The assembled cables offer attractive opportunities for reducing costs, not only in the field of automation technology, but also in the entire manufacturing industry. While previously it was necessary to carry out time-consuming wiring of switchgear cabinets and machines, now field bus technology has made it possible to move the periphery interfaces from the switchgear cabinets to the machines and systems. Moving the I/O points to the system periphery enables significant reductions in installation costs.

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded bare copper wire Class5
Insulation	PP
Cabling	Cores cabled together
Outer Sheath Material	PUR (low adhesion, extremely abrasion resistant, resistant to hydrolysis and microbial attack) Standard Colour: Grey
Standard Put Up Length	305m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Li9YI IY Cable
0.25mm² to 0.75mm²
PUR Sheath



C6160 TO C6171

Electrical Characteristics at 20°C

Min. Bending Radius	A.C. Test Voltage at 50Hz (V)		Operating Voltage at (V)		Temperature range (°C)	
	At 0.25mm ²	At ≥ 0.34mm ²	At 0.25mm ²	At ≥ 0.34mm ²	Fixed Installation	Occasional flexing
7.5*OD	1200	2000	350	500	-40 to +80	-30 to +80

Constructional Information

P/N	Cross Sectional Area (mm ²)	Core Colors	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)	AWG
C6160	3×0.25	BN,BU,BK	4.5	7.2	22.0	24
C6161	4×0.25	BN,BU,BK,WH	4.7	9.6	26.0	24
C6162	8×0.25	DIN 47100	6.0	19.2	49.0	24
C6163	4×0.34	BN,BU,BK,WH	4.9	13.1	43.0	22
C6164	2×0.50	BN,BU,	5.0	9.6	40.0	20
C6165	3G0.50	BK with number, GN-YE	5.7	14.4	43.0	20
C6166	3×0.50	BN,BU,BK	5.7	14.4	43.0	20
C6167	4×0.50	BN,BU,BK,WH	6.0	19.2	47.0	20
C6168	5×0.50	BN,BU,BK,WH,GY	6.2	24.0	55.0	20
C6169	3G0.75	BK with number, GN-YE	6.2	21.6	54.0	18
C6170	3×0.75	BK with number, GN-YE	6.2	21.6	54.0	18
C6171	4G0.75	BK with number, GN-YE	6.5	28.8	66.0	18

Reference Standards

IEC 60228	DIN 47100
EN 50290-2	IEC60332-1
RoHS directives	