

YY Type Control Cable

0.5mm² to 120mm²

PVC Sheath

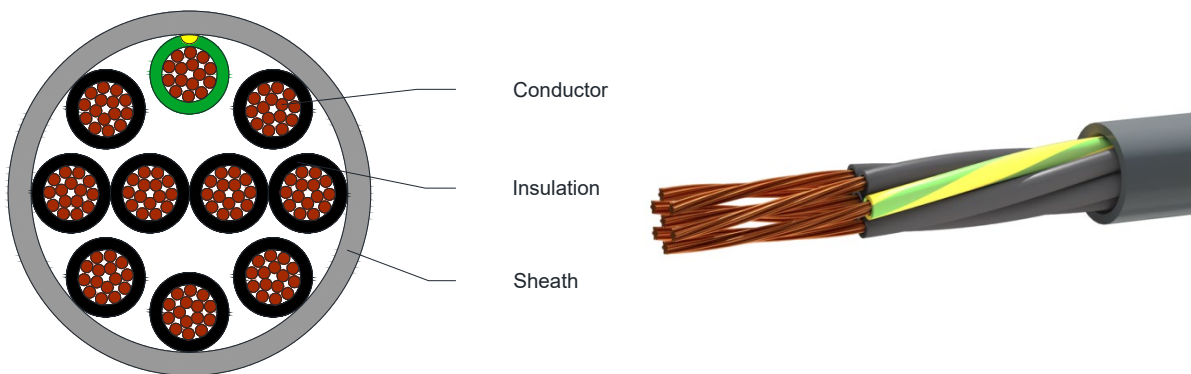


C2191- C2316

Applications

Interconnecting cable for measuring, controlling or regulation in control equipment. Suitable for fixed installations or for flexible use in conditions of light mechanical stress.

Cross Section Drawing



Design

Unit	Properties
Conductor	Class 5 flexible plain copper wire
Insulation	FR-PVC Green/Yellow core and Black cores with number identified.
Filling	PVC strip (where required)
Outer Sheath Material	FR-PVC 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.

YY Type Control Cable

0.5mm² to 120mm²

PVC Sheath



C2191- C2316

Electrical Characteristics at 20°C

Conductor Gauge (sq mm)	Max DC Resistance (Ohm/km)	Rated Temperature (°C)	Rated Voltage (V)	Min Insulation Resistance (M.Ohm/km)
0.5	< 39	-20 to +80	300	>500
0.75	< 27	-20 to +80	300	>500
1.0	< 20.2	-20 to +80	300	>500
1.5	< 14	-20 to +80	300	>500
2.5	< 8.4	-20 to +80	300	>500
4.0	< 5.0	-20 to +80	300	>500
6.0	< 3.3	-20 to +80	300	>500
10.0	< 1.91	-20 to +80	300	>500
16.0	< 1.21	-20 to +80	300	>500
25.0	< 0.78	-20 to +80	300	>500
35.0	< 0.554	-20 to +80	300	>500
50.0	< 0.386	-20 to +80	300	>500
70.0	< 0.272	-20 to +80	300	>500
95.0	< 0.206	-20 to +80	300	>500
120.0	< 0.161	-20 to +80	300	>500

Constructional Information

0.5mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2191	2*0.5	15/0.20	0.4	0.80	5.00	36
C2192	3*0.5	15/0.20	0.4	0.80	5.30	43
C2193	4*0.5	15/0.20	0.4	0.80	5.70	51
C2194	5*0.5	15/0.20	0.4	0.80	6.20	61
C2311	6*0.5	15/0.20	0.4	0.80	6.60	68
C2195	7*0.5	15/0.20	0.4	0.80	6.70	75
C2196	8*0.5	15/0.20	0.4	0.80	7.20	84
C2197	10*0.5	15/0.20	0.4	0.80	8.40	106
C2198	12*0.5	15/0.20	0.4	0.80	8.70	120
C2199	16*0.5	15/0.20	0.4	0.80	9.60	152
C2200	18*0.5	15/0.20	0.4	0.80	10.10	170
C2201	20*0.5	15/0.20	0.4	0.80	10.40	181
C2202	21*0.5	15/0.20	0.4	0.80	10.60	189
C2203	25*0.5	15/0.20	0.4	0.90	12.30	232
C2204	30*0.5	15/0.20	0.4	0.90	12.70	266
C2205	32*0.5	15/0.20	0.4	1.00	13.40	292
C2206	34*0.5	15/0.20	0.4	1.00	14.00	310
C2207	36*0.5	15/0.20	0.4	1.00	15.00	322
C2208	40*0.5	15/0.20	0.4	1.00	16.00	361

YY Type Control Cable

0.5mm² to 120mm²

PVC Sheath



0.75mm² C2191-C2316

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2209	2*0.75	23/0.20	0.4	0.80	5.40	45
C2210	3*0.75	23/0.20	0.4	0.80	5.70	53
C2211	4*0.75	23/0.20	0.4	0.80	6.20	65
C2212	5*0.75	23/0.20	0.4	0.80	6.80	78
C2213	6*0.75	23/0.20	0.4	0.80	7.30	93
C2214	7*0.75	23/0.20	0.4	0.80	7.30	98
C2215	8*0.75	23/0.20	0.4	0.80	7.90	114
C2216	10*0.75	23/0.20	0.4	0.80	9.20	139
C2217	12*0.75	23/0.20	0.4	0.80	9.50	158
C2218	18*0.75	23/0.20	0.4	0.90	11.30	226
C2219	20*0.75	23/0.20	0.4	0.90	11.60	246
C2220	21*0.75	23/0.20	0.4	0.90	11.90	258
C2221	25*0.75	23/0.20	0.4	1.00	13.70	315
C2222	32*0.75	23/0.20	0.4	1.00	14.70	388
C2223	34*0.75	23/0.20	0.4	1.00	15.30	409
C2224	42*0.75	23/0.20	0.4	1.20	17.60	515
C2225	50*0.75	23/0.20	0.4	1.20	18.40	591
C2226	65*0.75	23/0.20	0.4	1.20	15.30	762

1.0mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2227	2*1.0	30/0.20	0.4	0.80	5.80	45
C2228	3*1.0	30/0.20	0.4	0.80	6.10	64
C2229	4*1.0	30/0.20	0.4	0.80	6.70	78
C2230	5*1.0	30/0.20	0.4	0.80	7.30	94
C2312	6*1.0	30/0.20	0.4	0.80	7.70	106
C2231	7*1.0	30/0.20	0.4	0.80	7.90	119
C2232	8*1.0	30/0.20	0.4	0.80	8.50	133
C2233	10*1.0	30/0.20	0.4	0.80	10.00	169
C2234	12*1.0	30/0.20	0.4	0.80	10.30	192
C2235	14*1.0	30/0.20	0.4	0.80	10.90	218
C2236	18*1.0	30/0.20	0.4	0.90	12.30	282
C2237	21*1.0	30/0.20	0.4	0.90	12.90	316
C2238	25*1.0	30/0.20	0.4	1.00	15.00	385
C2239	34*1.0	30/0.20	0.4	1.20	17.10	522
C2240	41*1.0	30/0.20	0.4	1.40	19.60	636
C2241	42*1.0	30/0.20	0.4	1.40	19.60	648
C2242	50*1.0	30/0.20	0.4	1.40	20.50	749
C2243	65*1.0	30/0.20	0.4	1.50	22.50	951

YY Type Control Cable

0.5mm² to 120mm²

PVC Sheath 1.5mm²



P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2244	2*1.5	27/0.25	0.4	0.80	6.20	65
C2245	3*1.5	27/0.25	0.4	0.80	6.60	80
C2246	4*1.5	27/0.25	0.4	0.80	7.20	99
C2247	5*1.5	27/0.25	0.4	0.80	7.80	120
C2313	6*1.5	27/0.25	0.4	0.80	8.20	136
C2248	7*1.5	27/0.25	0.4	0.80	8.50	153
C2249	8*1.5	27/0.25	0.4	0.80	9.20	170
C2314	9*1.5	27/0.25	0.4	0.80	10.10	194
C2250	10*1.5	27/0.25	0.4	0.80	10.80	218
C2315	11*1.5	27/0.25	0.4	0.80	11.00	234
C2251	12*1.5	27/0.25	0.4	0.80	11.20	250
C2316	13*1.5	27/0.25	0.4	0.80	11.60	270
C2252	14*1.5	27/0.25	0.4	0.90	12.00	291
C2253	18*1.5	27/0.25	0.4	0.90	13.30	368
C2254	20*1.5	27/0.25	0.4	0.90	13.70	395
C2255	21*1.5	27/0.25	0.4	0.90	14.00	415
C2256	25*1.5	27/0.25	0.4	1.20	16.60	520
C2257	32*1.5	27/0.25	0.4	1.30	18.00	649
C2258	34*1.5	27/0.25	0.4	1.40	18.90	701
C2259	42*1.5	27/0.25	0.4	1.40	21.20	848
C2260	50*1.5	27/0.25	0.4	1.50	22.40	995
C2261	61*1.5	27/0.25	0.4	1.50	23.70	1181
C2262	65*1.5	27/0.25	0.4	1.60	24.60	1266

2.5mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2263	2*2.5	45/0.25	0.5	0.80	7.60	100
C2264	3*2.5	45/0.25	0.5	0.80	8.10	125
C2265	4*2.5	45/0.25	0.5	0.80	8.80	154
C2266	5*2.5	45/0.25	0.5	0.80	9.70	191
C2267	7*2.5	45/0.25	0.5	0.80	10.60	244
C2310	9*2.5	45/0.25	0.5	0.80	12.80	280
C2268	10*2.5	45/0.25	0.5	0.90	13.80	355
C2269	12*2.5	45/0.25	0.5	0.90	14.30	409
C2270	15*2.5	45/0.25	0.5	1.20	16.50	532
C2271	18*2.5	45/0.25	0.5	1.20	17.40	617
C2272	20*2.5	45/0.25	0.5	1.20	17.90	661
C2273	21*2.5	45/0.25	0.5	1.20	18.30	695
C2274	25*2.5	45/0.25	0.5	1.40	21.30	851
C2275	34*2.5	45/0.25	0.5	1.60	24.2	1146

YY Type Control Cable

0.5mm² to 120mm²

PVC Sheath



C2191- C2316

4.0mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2276	2*4.0	53/0.30	0.6	0.80	9.00	148
C2277	3*4.0	53/0.30	0.6	0.80	9.60	125
C2278	4*4.0	53/0.30	0.6	0.80	10.50	232
C2279	5*4.0	53/0.30	0.6	0.90	11.80	292
C2280	7*4.0	53/0.30	0.6	0.90	12.90	377

6.0mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2281	2*6.0	80/0.30	0.7	0.90	10.60	213
C2282	3*6.0	80/0.30	0.7	1.00	11.50	275
C2283	4*6.0	80/0.30	0.7	1.00	12.60	343
C2284	5*6.0	80/0.30	0.7	1.00	13.90	424
C2285	7*6.0	80/0.30	0.7	1.00	15.20	549

10.0mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2286	2*10.0	81/0.39	0.8	1.00	13.20	347
C2287	3*10.0	81/0.39	0.8	1.00	14.10	439
C2288	4*10.0	81/0.39	0.8	1.10	15.70	558
C2289	5*10.0	81/0.39	0.8	1.20	17.50	701
C2290	7*10.0	81/0.39	0.8	1.40	19.60	928

16.0mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2291	3*16.0	127/0.39	0.9	1.20	17.10	666
C2292	4*16.0	127/0.39	0.9	1.30	19.00	847
C2293	5*16.0	127/0.39	0.9	1.40	21.2	1061

YY Type Control Cable

0.5mm² to 120mm²



C2294	7*16.0	127/0.39	0.9	1.50	23.4	1392
-------	--------	----------	-----	------	------	------

PVC Sheath

International

C2191- C2316

25.0 mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2295	2*25.0	197/0.39	1.0	1.40	20.20	802
C2296	3*25.0	197/0.39	1.0	1.40	21.50	1026
C2297	4*25.0	197/0.39	1.0	1.50	24.00	1301
C2298	5*25.0	197/0.39	1.0	1.70	27.00	1648

35.0 mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2299	3*35.0	278/0.39	1.2	1.60	24.30	1402
C2300	4*35.0	278/0.39	1.2	1.70	27.10	1782
C2301	5*35.0	278/0.39	1.2	1.80	30.10	2228

50.0~120.0 mm²

P/N	Cross Sectional Area (mm ²)	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2302	3*50.0	399/0.39	1.5	1.80	29.20	1992
C2303	4*50.0	399/0.39	1.5	2.00	32.70	2414
C2304	5*50.0	399/0.39	1.5	2.50	37.10	3246
C2305	4*70.0	334/0.50	1.5	2.50	37.6	3500
C2306	5*70.0	334/0.50	1.5	2.80	42.00	4396
C2307	4*95.0	440/0.50	1.7	3.20	43.80	4673
C2308	5*95.0	440/0.50	1.7	3.50	48.90	5863
C2309	4*120.0	563/0.50	1.9	4.50	51.20	6174

Reference Standards

VDE 2050	IEC 60228
BS 6500	EN 50290-2
RoHS directives	IEC60332-1