

**CY Type Control Cable**  
**0.5mm<sup>2</sup> to 35mm<sup>2</sup>**  
**PVC Sheath**

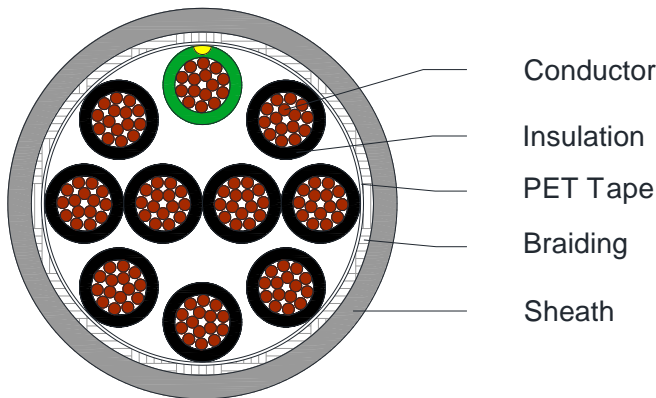


**C2465 TO C2557**

**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)
Wrapping Tape	PET Tape
Braiding	Tinned copper wire
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.

# CY Type Control Cable

## 0.5mm<sup>2</sup> to 35mm<sup>2</sup>

### PVC Sheath



#### C2465 TO C2557

#### 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

#### Constructional Information

#### 0.5mm<sup>2</sup>

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2465	2*0.5	15/0.20	0.4	16/5/0.10	0.80	5.60	38
C2466	3*0.5	15/0.20	0.4	16/5/0.10	0.80	5.90	46
C2467	4*0.5	15/0.20	0.4	16/6/0.10	0.80	6.30	55
C2468	5*0.5	15/0.20	0.4	16/6/0.10	0.80	6.80	66
C2469	7*0.5	15/0.20	0.4	16/6/0.10	0.80	7.30	80
C2470	10*0.5	15/0.20	0.4	16/7/0.12	0.80	9.10	112
C2471	12*0.5	15/0.20	0.4	16/7/0.12	0.80	9.40	127
C2472	18*0.5	15/0.20	0.4	24/6/0.12	0.80	10.80	179
C2473	20*0.5	15/0.20	0.4	24/6/0.12	0.80	11.00	190
C2474	21*0.5	15/0.20	0.4	24/6/0.12	0.80	11.30	196
C2475	25*0.5	15/0.20	0.4	24/7/0.12	1.00	13.20	246
C2476	34*0.5	15/0.20	0.4	24/6/0.15	1.20	15.10	339

**CY Type Control Cable**  
**0.5mm<sup>2</sup> to 35mm<sup>2</sup>**  
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**C2465 TO C2557**

**0.75mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2477	2*0.75	23/0.20	0.4	16/5/0.10	0.80	6.0	45.0
C2478	3*0.75	23/0.20	0.4	16/6/0.10	0.80	6.3	56.1
C2479	4*0.75	23/0.20	0.4	16/6/0.10	0.80	6.8	68.2
C2480	5*0.75	23/0.20	0.4	16/6/0.10	0.80	7.3	82.1
C2481	7*0.75	23/0.20	0.4	16/6/0.12	0.80	8.0	104.4
C2482	10*0.75	23/0.20	0.4	16/6/0.15	0.80	10.0	148.0
C2483	12*0.75	23/0.20	0.4	24/5/0.12	0.80	10.2	163.8
C2484	18*0.75	23/0.20	0.4	24/6/0.12	0.90	12.0	238.7
C2485	20*0.75	23/0.20	0.4	24/7/0.12	0.90	12.2	254.7
C2486	21*0.75	23/0.20	0.4	24/7/0.12	0.90	12.6	266.1
C2487	25*0.75	23/0.20	0.4	24/6/0.15	1.00	14.5	326.6
C2488	32*0.75	23/0.20	0.4	24/7/0.15	1.10	15.6	407.5
C2489	34*0.75	23/0.20	0.4	24/7/0.15	1.20	16.5	466.1
C2490	40*0.75	23/0.20	0.4	32/5/0.20	1.30	18.9	530.7
C2491	50*0.75	23/0.20	0.4	32/5/0.20	1.40	20.1	624.1

**1.0mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2493	2*1.0	30/0.20	0.4	16/6/0.10	0.80	6.4	51.8
C2494	3*1.0	30/0.20	0.4	16/6/0.10	0.80	6.7	65.1
C2495	4*1.0	30/0.20	0.4	16/6/0.10	0.80	7.3	80.2
C2496	5*1.0	30/0.20	0.4	16/7/0.10	0.80	7.9	97.4
C2497	7*1.0	30/0.20	0.4	16/8/0.10	0.80	8.5	122.0
C2498	8*1.0	30/0.20	0.4	16/7/0.12	0.80	9.2	139.6
C2499	10*1.0	30/0.20	0.4	24/5/0.12	0.80	10.8	171.9
C2500	12*1.0	30/0.20	0.4	24/6/0.12	0.90	11.3	202.1
C2501	18*1.0	30/0.20	0.4	24/6/0.12	0.90	13.1	288.6
C2502	21*1.0	30/0.20	0.4	24/5/0.15	1.00	14.0	337.7
C2503	25*1.0	30/0.20	0.4	24/7/0.15	1.20	16.1	408.7
C2504	30*1.0	30/0.20	0.4	24/7/0.15	1.20	16.6	472.0
C2505	32*1.0	30/0.20	0.4	32/5/0.20	1.30	17.8	526.0
C2506	34*1.0	30/0.20	0.4	32/5/0.20	1.30	18.4	556.3
C2507	50*1.0	30/0.20	0.4	32/6/0.20	1.40	21.1	784.1

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**PVC Sheath**



**C2465 TO C2557**

**1.5mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2508	2*1.5	27/0.25	0.4	16/6/0.10	0.80	6.8	62.8
C2509	3*1.5	27/0.25	0.4	16/6/0.10	0.80	7.2	81.0
C2510	4*1.5	27/0.25	0.4	16/7/0.10	0.80	7.8	100.0
C2511	5*1.5	27/0.25	0.4	16/8/0.10	0.80	8.4	122.3
C2512	7*1.5	27/0.25	0.4	16/8/0.10	0.80	9.1	155.1
C2513	10*1.5	27/0.25	0.4	24/6/0.12	0.90	11.7	224.4
C2514	12*1.5	27/0.25	0.4	24/6/0.12	0.90	12.1	258.9
C2515	18*1.5	27/0.25	0.4	24/6/0.15	1.00	14.3	385.7
C2516	20*1.5	27/0.25	0.4	24/6/0.15	1.00	14.6	414.1
C2517	21*1.5	27/0.25	0.4	24/7/0.15	1.00	15.0	432.2
C2518	25*1.5	27/0.25	0.4	32/5/0.20	1.20	17.5	540.4
C2519	32*1.5	27/0.25	0.4	32/5/0.20	1.30	18.9	673.0
C2520	34*1.5	27/0.25	0.4	32/5/0.20	1.40	20.1	727.2
C2521	42*1.5	27/0.25	0.4	32/6/0.20	1.50	22.7	883.8

**2.0mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2522	2*2.5	45/0.25	0.5	16/8/0.10	0.80	8.2	91.3
C2523	3*2.5	45/0.25	0.5	16/8/0.10	0.80	8.7	120.7
C2524	4*2.5	45/0.25	0.5	16/7/0.12	0.80	9.5	154.1
C2525	5*2.5	45/0.25	0.5	16/8/0.12	0.80	10.2	190.2
C2526	7*2.5	45/0.25	0.5	24/6/0.12	0.90	11.5	249.4
C2527	10*2.5	45/0.25	0.5	24/7/0.15	1.00	14.8	361.2
C2528	12*2.5	45/0.25	0.5	24/7/0.15	1.20	15.7	431.7
C2529	18*2.5	45/0.25	0.5	32/5/0.20	1.40	19.0	654.1
C2530	21*2.5	45/0.25	0.5	32/5/0.20	1.40	20.0	735.4
C2531	25*2.5	45/0.25	0.5	32/6/0.20	1.60	23.0	887.7
C2532	34*2.5	45/0.25	0.5	32/6/0.20	1.60	25.4	1162.2
C2533	50*2.5	45/0.25	0.5	32/7/0.20	1.80	30.0	1649.9

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### PVC Sheath



#### C2465 TO C2557

#### 4.0mm<sup>2</sup>

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2534	2*4.0	53/0.30	0.6	16/7/0.12	0.80	8.20	127.1
C2535	3*4.0	53/0.30	0.6	16/8/0.12	0.80	10.30	178.1
C2536	4*4.0	53/0.30	0.6	24/6/0.12	0.80	11.2	225.3
C2537	5*4.0	53/0.30	0.6	24/7/0.12	0.90	12.5	286.7
C2538	7*4.0	53/0.30	0.6	24/7/0.12	1.00	13.8	376.1

#### 6.0mm<sup>2</sup>

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2539	2*6.0	80/0.30	0.7	16/8/0.12	0.80	10.30	176.8
C2540	3*6.0	80/0.30	0.7	16/8/0.12	0.80	10.90	242.7
C2541	4*6.0	80/0.30	0.7	24/6/0.12	0.90	12.20	316.8
C2542	5*6.0	80/0.30	0.7	24/7/0.12	1.00	13.50	402.5
C2543	7*6.0	80/0.30	0.7	24/8/0.12	1.10	14.90	531.4

#### 10.0mm<sup>2</sup>

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2544	2*10.0	81/0.39	0.8	24/7/0.12	1.00	12.90	287.9
C2545	3*10.0	81/0.39	0.8	24/8/0.12	1.10	15.00	410.3
C2546	4*10.0	81/0.39	0.8	24/9/0.12	1.10	15.80	521.8
C2547	5*10.0	81/0.39	0.8	32/5/0.12	1.30	18.40	698.2
C2548	7*10.0	81/0.39	0.8	32/5/0.12	1.40	20.40	915.1

#### 16.0mm<sup>2</sup>

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2549	2*16.0	127/0.39	0.9	24/9/0.12	1.20	16.70	435.8
C2550	3*16.0	127/0.39	0.9	32/5/0.12	1.30	18.40	645.2
C2551	4*16.0	127/0.39	0.9	32/5/0.12	1.40	20.40	837.1
C2552	5*16.0	127/0.39	0.9	32/6/0.12	1.50	22.60	1056.9
C2553	7*16.0	127/0.39	0.9	32/6/0.12	1.50	24.60	1379.9

**CY Type Control Cable**  
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**PVC Sheath**



**C2465 TO C2557**

**25.0 mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2554	4*25.0	197/0.39	1.0	32/7/0.20	1.50	25.00	1224.0
C2555	5*25.0	197/0.39	1.0	32/7/0.20	1.70	28.10	1564.0

**35.0 mm<sup>2</sup>**

P/N	Cross Sectional Area (mm <sup>2</sup> )	Conductor Construction (mm)	Nom. Thickness of insulation (mm)	Braiding Wire (mm)	Nom. Thickness of jacket (mm)	Overall Diameter (mm)	Nom. Weight (kg/km)
C2556	4*35.0	278/0.39	1.2	32/7/0.20	1.70	28.10	1672.4
C2557	5*35.0	278/0.39	1.2	32/8/0.20	1.90	31.30	2130.6

**Reference Standards**

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