

CONTROL CABLE

FLEXIBLE, PVC TINNED COPPER BRAID

Construction

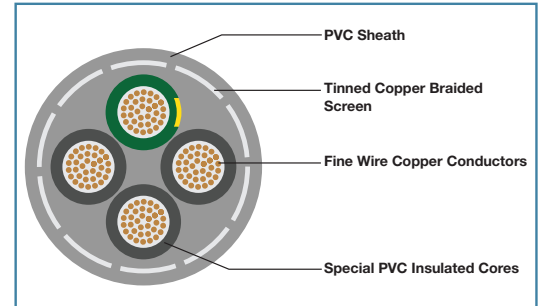
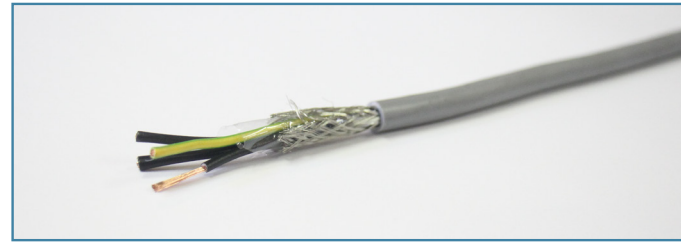
Fine wire copper conductors. Core insulation of special PVC Z 7225. Black cores with continuous white numbering. Green-yellow earth core in the outer layer (3 cores and above). Cores stranded in layers with optimal lay-length. Foil separator. Tinned copper braided screening, approx. 85% area coverage, grey PVC outer sheath.

Applications

For use as a data cable in control circuits, in tool-making and machine industries as well as a signal cable in computer systems and electronics. The more usual PVC inner sheath has been replaced in these cables by a stabilising foil separator, thus reducing the total diameter of the cables considerably and thereby reducing the bending radius, total weight etc. The high covering percentage of the copper screening offers interference-free signal transfer etc. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

Packaging

Available in 500 metre drums.
Cut lengths available on request.



Specification

Nominal Voltage	300 / 500 V
Test Voltage	Core/Core 4000 V and Core/Screen 2000 V
Break Down Voltage	Min. 8000 V
Temperature Range	Flexing: -5°C to +80°C Fixed Installation: -40°C to +80°C
Minimum Bending Radius	Flexing: 10 x cable Ø Fixed Installation: 5 x cable Ø
Flexibility Class	5
Insulation Resistance	Min. 20 MOhm x km
Mutual Capacitance	According to different cross-sections 0.5mm ² to 2.5mm ² : Core/Core approx. 150 nF/km and Core/Screen approx. 270 nF/km
Coupling Resistance	Max. 250 Ohm/km
Radiation Resistance	Up to 80 x 10 ⁶ cJ/kg (Up to 80 Mrad)
Sheath Colour	Grey



Part No.	No. Cores x Cross Section mm ²	Outer Ø Approx. mm	Cop. Weight kg/km	Weight Approx. kg/km	AWG-No.	Part No.	No. Cores x Cross Section mm ²	Outer Ø Approx. mm	Cop. Weight kg/km	Weight Approx. kg/km	AWG-No.
CY005002	2 x 0.5	5.7	35.0	45.0	20	CY005021	21 x 0.5	12.7	188.0	250.0	20
CY005003	3 x 0.5	5.9	42.0	55.0	20	CY005024	24 x 0.5	13.5	235.0	300.0	20
CY005004	4 x 0.5	6.4	47.0	61.0	20	CY005025	25 x 0.5	13.6	240.0	314.0	20
CY005005	5 x 0.5	6.9	56.0	74.0	20	CY005030	30 x 0.5	14.4	295.0	360.0	20
CY005006	6 x 0.5	7.6	67.0	89.0	20	CY005032	32 x 0.5	14.9	301.0	425.0	20
CY005007	7 x 0.5	7.6	69.0	98.0	20	CY005034	34 x 0.5	15.6	312.0	433.0	20
CY005008	8 x 0.5	8.7	80.0	117.0	20	CY005036	36 x 0.5	15.6	318.0	446.0	20
CY005010	10 x 0.5	9.6	94.0	135.0	20	CY005040	40 x 0.5	16.9	343.0	475.0	20
CY005012	12 x 0.5	9.7	108.0	157.0	20	CY005041	41 x 0.5	16.9	348.0	486.0	20
CY005014	14 x 0.5	10.2	116.0	190.0	20	CY005050	50 x 0.5	18.5	406.0	573.0	20
CY005016	16 x 0.5	11.0	129.0	210.0	20	CY005061	61 x 0.5	19.7	508.0	653.0	20
CY005018	18 x 0.5	11.5	145.0	217.0	20	CY005080	80 x 0.5	22.6	680.0	784.0	20
CY005020	20 x 0.5	12.2	172.0	240.0	20	CY005100	100 x 0.5	24.9	804.0	995.0	20

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CY007502	2 x 0.75	6.1	40.0	59.0	18	CY015007	7 x 1.5	9.8	147.0	208.0	16
CY007503	3 x 0.75	6.3	52.0	66.0	-	CY015008	8 x 1.5	11.4	170.0	244.0	16
CY007504	4 x 0.75	6.8	60.0	77.0	18	CY015010	10 x 1.5	12.6	193.0	315.0	16
CY007505	5 x 0.75	7.4	71.0	93.0	18	CY015012	12 x 1.5	12.8	267.0	338.0	16
CY007506	6 x 0.75	8.2	80.0	113.0	18	CY015014	14 x 1.5	13.5	283.0	383.0	16
CY007507	7 x 0.75	8.2	91.0	130.0	18	CY015016	16 x 1.5	14.4	315.0	424.0	16
CY007508	8 x 0.75	9.6	110.0	145.0	18	CY015018	18 x 1.5	15.4	374.0	479.0	16
CY007510	10 x 0.75	10.3	137.0	180.0	18	CY015019	19 x 1.5	15.4	386.0	508.0	16
CY007512	12 x 0.75	10.5	142.0	202.0	18	CY015020	20 x 1.5	16.1	396.0	545.0	16
CY007514	14 x 0.75	11.3	180.0	225.0	18	CY015021	21 x 1.5	17.0	425.0	560.0	16
CY007516	16 x 0.75	11.9	200.0	275.0	18	CY015024	24 x 1.5	18.2	458.0	690.0	16
CY007518	18 x 0.75	12.7	212.0	292.0	18	CY015025	25 x 1.5	18.4	526.0	705.0	16
CY007519	19 x 0.75	12.7	230.0	308.0	18	CY015027	27 x 1.5	18.4	531.0	774.0	16
CY007520	20 x 0.75	13.3	238.0	320.0	18	CY015028	28 x 1.5	19.1	541.0	810.0	16
CY007521	21 x 0.75	14.0	246.0	378.0	18	CY015030	30 x 1.5	19.1	555.0	830.0	16
CY007524	24 x 0.75	14.9	270.0	435.0	18	CY015035	35 x 1.5	20.8	645.0	890.0	16
CY007525	25 x 0.75	15.0	281.0	415.0	18	CY015037	37 x 1.5	20.8	674.0	945.0	16
CY007527	27 x 0.75	15.0	304.0	435.0	18	CY015040	40 x 1.5	22.6	725.0	1060.0	16
CY007530	30 x 0.75	15.8	320.0	450.0	18	CY015041	41 x 1.5	22.6	801.0	1071.0	16
CY007532	32 x 0.75	16.7	342.0	484.0	18	CY015050	50 x 1.5	24.7	885.0	1290.0	16
CY007534	34 x 0.75	17.2	345.0	502.0	18	CY015061	61 x 1.5	26.4	1100.0	1705.0	16
CY007536	36 x 0.75	17.2	350.0	535.0	18	CY015080	80 x 1.5	30.3	1324.0	2010.0	16
CY007537	37 x 0.75	17.2	361.0	592.0	18	CY0150100	100 x 1.5	33.6	1641.0	2505.0	16
CY007540	40 x 0.75	18.6	369.0	610.0	18						
CY007541	41 x 0.75	18.6	400.0	622.0	18	CY025002	2 x 2.5	8.3	96.0	130.0	14
CY007550	50 x 0.75	20.3	461.0	777.0	18	CY025003	3 x 2.5	9.0	144.0	167.0	14
CY007561	61 x 0.75	21.7	540.0	900.0	18	CY025004	4 x 2.5	9.8	148.0	195.0	14
CY007580	80 x 0.75	24.8	711.0	1210.0	18	CY025005	5 x 2.5	10.9	181.0	223.0	14
CY0075100	100 x 0.75	27.6	900.0	1445.0	18	CY025007	7 x 2.5	11.9	255.0	344.0	14
						CY025010	10 x 2.5	15.5	340.0	460.0	14
CY010002	2 x 1	6.4	50.0	65.0	17	CY025012	12 x 2.5	15.8	441.0	570.0	14
CY010003	3 x 1	6.7	60.0	80.0	17	CY025018	18 x 2.5	18.9	570.0	681.0	14
CY010004	4 x 1	7.2	71.0	98.0	17						
CY010005	5 x 1	8.0	88.0	127.0	17	CY040002	2 x 4	9.8	120.0	185.0	12
CY010006	6 x 1	8.7	97.0	144.0	17	CY040003	3 x 4	10.6	174.0	240.0	12
CY010007	7 x 1	8.7	111.0	158.0	17	CY040004	4 x 4	11.5	230.0	310.0	12
CY010008	8 x 1	10.1	127.0	197.0	17	CY040005	5 x 4	12.7	273.0	385.0	12
CY010010	10 x 1	11.2	150.0	232.0	17	CY040007	7 x 4	14.0	316.0	500.0	12
CY010012	12 x 1	11.4	184.0	260.0	17						
CY010014	14 x 1	12.0	196.0	302.0	17	CY060002	2 x 6	11.7	173.0	268.0	10
CY010016	16 x 1	12.8	209.0	346.0	17	CY060003	3 x 6	12.5	240.0	330.0	10
CY010018	18 x 1	13.5	260.0	380.0	17	CY060004	4 x 6	13.8	305.0	415.0	10
CY010019	19 x 1	13.5	280.0	412.0	17	CY060005	5 x 6	15.3	439.0	509.0	10
CY010020	20 x 1	14.3	317.0	440.0	17	CY060007	7 x 6	16.9	505.0	672.0	10
CY010024	24 x 1	16.0	320.0	493.0	17						
CY010025	25 x 1	16.2	349.0	534.0	17	CY100002	2 x 10	14.7	255.0	425.0	8
CY010027	27 x 1	16.2	400.0	562.0	17	CY100003	3 x 10	15.7	350.0	500.0	8
CY010028	28 x 1	17.0	408.0	595.0	17	CY100004	4 x 10	17.3	535.0	783.0	8
CY010030	30 x 1	17.0	441.0	616.0	17	CY100005	5 x 10	19.2	592.0	856.0	8
CY010034	34 x 1	18.5	486.0	741.0	17	CY100007	7 x 10	21.4	810.0	1305.0	8
CY010037	37 x 1	18.5	519.0	790.0	17						
CY010040	40 x 1	19.9	510.0	835.0	17	CY160004	4 x 16	20.4	740.0	880.0	6
CY010041	41 x 1	19.9	531.0	843.0	17	CY160005	5 x 16	22.6	895.0	1295.0	6
CY010050	50 x 1	21.8	625.0	1025.0	17						
CY010061	61 x 1	23.3	702.0	1205.0	17	CY250004	4 x 25	24.9	1140.0	1570.0	4
CY010080	80 x 1	26.6	920.0	1445.0	17	CY250005	5 x 25	27.8	1380.0	1965.0	4
CY0100100	100 x 1	29.7	1120.0	1613.0	17						
						CY350004	4 x 35	28.4	1576.0	2070.0	2
CY015002	2 x 1.5	7.0	63.0	88.0	16	CY350005	5 x 35	31.6	1930.0	2690.0	2
CY015003	3 x 1.5	7.5	80.0	100.0	16						
CY015004	4 x 1.5	8.1	97.0	126.0	16	CY500004	4 x 50	34.6	2155.0	3015.0	1
CY015005	5 x 1.5	9.0	119.0	160.0	16						