


CONSTRUCTION

Conductor	Plain Annealed Copper Wire Class 5 IEC 228 - BS 6360
Insulation	Insulation Polyvinyl Chloride Lead Free (PVC 80°C RoHS)
Core Identification	Colours as per DIN 47100
Filler	PP Yarn or PVC Filler (Optional)
Wrapping	Covered as helically by polyester tape
Screen	Braided tin copper wire, approx. 80% coverage
Outer Sheath	Polyvinyl chloride lead free (PVC 80°C UV Resistant), Grey
Flame Retardant	IEC 60332-1
Flame Propagation	IEC 60332-3 Cat.C

APPLICATION

Data transmission cable, control and connecting cable predominantly for transmission of analog and digital signals in process controlled facilities in measurement and control technology for loss-less transmission of data and signals. For fixed laying and flexible applications with undefined cable routing and without tensile stress. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.


TECHNICAL DATA

 **Nominal Voltage:**
300/500V

 **Spark Test:**
5000V

 **Insulation Resistance:**
At 20°C 20 MOhm/km

 **Min. Bending Radius:**
5 x O.D (Fixed) | 10 x O.D (Mobile)

 **Test Voltage:**
4000V 5 min

 **Temperature Rating:**
80°C

 **UV Resistant**



Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx.mm	Weight approx. kg/km
1	2x2x0.14	18.0	5.1	35
2	3x2x0.14	23.0	5.5	42
3	4x2x0.14	27.0	6.3	50
4	5x2x0.14	31.0	6.5	55
5	6x2x0.14	38.0	7.3	70
6	7x2x0.14	65.0	7.6	80
7	8x2x0.14	69.0	7.9	92
8	10x2x0.14	75.0	8.4	105
9	12x2x0.14	85.0	9.2	123
10	14x2x0.14	90.0	9.7	130
11	16x2x0.14	98.0	10.6	162
12	18x2x0.14	110.0	11.0	174
13	20x2x0.14	115.0	11.2	185
14	24x2x0.14	130.0	12.0	195
15	25x2x0.14	135.0	12.0	220
16	32x2x0.14	152.0	14.9	275
17	40x2x0.14	179.0	16.0	322
18	50x2x0.14	238.0	18.0	407
19	2x2x0.25	24.0	6.5	46
20	3x2x0.25	35.0	6.9	57
21	4x2x0.25	45.0	7.3	77
22	5x2x0.25	50.0	8.2	87
23	6x2x0.25	56.0	9.0	100
24	7x2x0.25	66.0	9.2	109
25	8x2x0.25	70.0	9.6	118
26	10x2x0.25	110.0	10.1	140
27	12x2x0.25	125.0	11.5	185
28	16x2x0.25	138.0	13.3	220
29	18x2x0.25	155.0	13.4	255
30	20x2x0.25	168.0	13.9	262
31	24x2x0.25	189.0	15.5	320
32	25x2x0.25	196.0	15.7	326
33	32x2x0.25	258.0	17.3	423
34	40x2x0.25	304.0	19.0	513
35	50x2x0.25	394.0	21.5	644
36	2x2x0.34	26.0	7.3	52
37	3x2x0.34	40.0	7.6	68
38	4x2x0.34	52.0	8.1	90
39	5x2x0.34	65.7	9.4	103
40	6x2x0.34	68.0	10.2	117
41	7x2x0.34	85.2	10.2	135
42	8x2x0.34	88.0	10.8	146
43	10x2x0.34	125.8	11.7	186
44	12x2x0.34	138.0	13.4	219

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx.mm	Weight approx. kg/km
45	16x2x0.34	164.0	14.9	270
46	18x2x0.34	192.6	15.0	300
47	20x2x0.34	195.0	15.6	317
48	24x2x0.34	269.0	17.4	400
49	25x2x0.34	278.3	17.7	414
50	32x2x0.34	334.5	22.2	589
51	40x2x0.34	426.3	24.5	746
52	50x2x0.34	515.0	27.8	922
53	2x2x0.50	46.0	8.1	87
54	3x2x0.50	64.0	8.4	109
55	4x2x0.50	82.0	9.0	139
56	5x2x0.50	98.0	10.3	176
57	6x2x0.50	110.0	11.2	197
58	7x2x0.50	120.0	11.2	200
59	8x2x0.50	136.0	11.9	238
60	10x2x0.50	160.0	13.4	284
61	12x2x0.50	186.0	14.7	324
62	16x2x0.50	240.0	16.4	446
63	18x2x0.50	266.0	16.6	483
64	20x2x0.50	292.0	17.2	525
65	24x2x0.50	346.0	19.2	592
66	25x2x0.50	360.0	19.6	622
67	32x2x0.50	477.0	23.3	786
68	40x2x0.50	569.0	25.2	933
69	50x2x0.50	691.0	29.2	1176
70	2x2x0.75	60.0	9.1	106
71	3x2x0.75	92.0	9.5	140
72	4x2x0.75	115.0	10.2	179
73	5x2x0.75	128.0	11.8	215
74	6x2x0.75	146.0	13.3	246
75	7x2x0.75	170.0	13.3	264
76	8x2x0.75	180.0	14.1	305
77	10x2x0.75	220.0	15.2	392
78	12x2x0.75	270.0	16.8	456
79	16x2x0.75	328.0	18.8	564
80	18x2x0.75	390.0	19.0	601
81	20x2x0.75	425.0	19.7	671
82	24x2x0.75	490.0	22.1	793
83	25x2x0.75	530.0	22.6	805
84	32x2x0.75	711.0	26.0	1079
85	40x2x0.75	844.0	28.0	1268
86	50x2x0.75	1028.0	32.0	1561
87	2x2x1.0	82.0	9.5	136

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx.mm	Weight approx. kg/km
88	3x2x1.0	103.0	9.9	174
89	4x2x1.0	132.0	10.8	226
90	5x2x1.0	161.0	12.0	266
91	6x2x1.0	188.0	13.5	333
92	7x2x1.0	208.0	13.5	398
93	8x2x1.0	240.0	15.7	412
94	10x2x1.0	282.0	17.0	484
95	12x2x1.0	324.0	18.6	552
96	16x2x1.0	412.0	20.7	695
97	20x2x1.0	505.0	21.7	850
98	25x2x1.0	610.0	25.0	1020
99	2x2x1.5	112.0	11.5	168
100	3x2x1.5	139.0	11.8	228
101	4x2x1.5	176.0	12.6	286
102	5x2x1.5	212.0	13.4	340
103	6x2x1.5	255.0	14.8	425
104	7x2x1.5	295.0	14.8	475
105	8x2x1.5	322.0	16.2	522
106	10x2x1.5	380.0	17.7	615
107	12x2x1.5	442.0	19.4	712
108	16x2x1.5	572.0	22.5	927
109	20x2x1.5	705.0	24.4	1115
110	25x2x1.5	862.0	26.6	1350