



Drag chain CP cable



EN 50265-2-1 ; IEC 60332-1

RoHS , REACH & CE Directives



Ambient installation T°
C range
-5 + 50 °C



Operating temp.
-20 + 60 °C



Storage temperature
range
-20 + 70 °C



Flame retardant
IEC 60332-1-2



Smoke density

Application

The DRAG CHAIN CP Cable is a highly flexible, shielded control and data cable designed for continuous-movement industrial applications, such as cable carriers and automated machinery. The "CP" in its name specifically indicates that it features a Copper-braid shield (for electromagnetic interference protection) and a Polyurethane (PUR) outer sheath. The DRAG CHAIN CP is a highly flexible, shielded drag chain control cable designed for continuous flexing in cable carrier (drag chain) systems under demanding industrial conditions. It is mostly used for:

- Industrial automation and factory machinery
- Cable carriers (drag chains) with continuous movement
- CNC machines and machining centers
- Robotics and automated handling equipment
- Packaging and printing machines
- Conveyor systems

- Material handling equipment
- Machine tools
- Indoor and outdoor installations
- Applications with high mechanical stress, oil exposure, and UV exposure
- Installations requiring electromagnetic interference (EMI/EMC) protection due to its tinned copper braid shield (≈85% coverage).

This cable is an excellent choice for moving control circuits where long service life, high flexibility, and EMC performance are essential. It is not intended for power transmission, but for control and signal applications in continuously moving industrial equipment.

Drag chain CP cable Construction:

Conductor material:	Fine stranded bare copper class 6 (extra flexible)
Core Insulation:	TPE (Thermoplastic Elastomer)
Inner sheath:	PP (Polypropylene)
Screen:	PUR (Polyurethane)
Outer sheath:	Tinned copper wire braid
	Coverage approx. 85%
	Polyurethane (PUR)
	Halogen free according to EN 60754-1
	Flame retardant according to IEC 60332-1-2
	UV resistant
Core identification	Black numbered + Green/Yellow
Sheath colour	Oil resistant according to EN 60811-404
	Grey (RAL 7001)
Voltage rating	U ₀ /U = 300/500 V.
Test voltage:	3 Kv
Operating temperature	fixed: -50°C to +80 °C
	continuous movement: -40°C to +80 °C
Designed for bending cycles:	up to 5 million
Maximum travel length in drag chains:	100 m
Bending radius	in motion 7.5 x OD (overall diameter)
	Minimum 4 x OD

Drag chain CP cable Dimensions:

Cable Description	Number of cores	Nominal Conductor Size (mm ²)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)
24 AWG (0.25 mm²)				
2 x 0.25	2	0.25	6.1	38
3 x 0.25	3	0.25	6.3	41
4 x 0.25	4	0.25	6.7	47
5 x 0.25	5	0.25	7.2	54
6 x 0.25	6	0.25	7.8	59
7 x 0.25	7	0.25	7.9	63
8 x 0.25	8	0.25	8.0	74
10 x 0.25	10	0.25	8.2	86
12 x 0.25	12	0.25	8.5	94
22 AWG (0.34 mm²)				
2 x 0.34	2	0.34	6.3	43
3 x 0.34	3	0.34	6.5	48
4 x 0.34	4	0.34	6.9	55
5 x 0.34	5	0.34	7.4	67
6 x 0.34	6	0.34	8.1	75

7 x 0.34	7	0.34	8.3	82
8 x 0.34	8	0.34	8.5	94
10 x 0.34	10	0.34	9.0	106
12 x 0.34	12	0.34	9.6	114
20 AWG (0.5 mm ²)				
2 x 0.5	2	0.5	6.6	46
3 x 0.5	3	0.5	6.8	52
4 x 0.5	4	0.5	7.3	60
5 x 0.5	5	0.5	7.9	71
6 x 0.5	6	0.5	8.4	80
7 x 0.5	7	0.5	8.6	88
8 x 0.5	8	0.5	8.9	96
10 x 0.5	10	0.5	10.2	115
12 x 0.5	12	0.5	10.4	130
18 AWG (0.75 mm ²)				
2 x 0.75	2	0.75	7.1	56
3 x 0.75	3	0.75	7.4	66
4 x 0.75	4	0.75	7.9	78
5 x 0.75	5	0.75	8.5	89
6 x 0.75	6	0.75	9.1	101
7 x 0.75	7	0.75	9.3	111
8 x 0.75	8	0.75	9.7	122
17 AWG (1 mm ²)				
2 x 1	2	1	7.6	60
3 x 1	3	1	7.9	77
4 x 1	4	1	8.5	91
5 x 1	5	1	9.1	106
6 x 1	6	1	9.7	119
7 x 1	7	1	9.9	131
16 AWG (1.5 mm ²)				
2 x 1.5	2	1.5	8.1	82
3 x 1.5	3	1.5	8.7	99
4 x 1.5	4	1.5	9.3	117
5 x 1.5	5	1.5	10.1	139
6 x 1.5	6	1.5	10.9	161
7 x 1.5	7	1.5	11.1	178
14 AWG (2.5 mm ²)				
2 x 2.5	2	2.5	9.3	105
3 x 2.5	3	2.5	9.9	135
4 x 2.5	4	2.5	10.8	168
5 x 2.5	5	2.5	11.5	196



The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.