



SIMH-CTRL



### Construction:

Conductor	: electrolytic twisted copper.
Insulation	: silicone.
Stranding	: twisted at regular intervals.
Outer sheath	: silicone.

### Technical data and tests:

Operating voltage	: 300/500 V.
Temperature range	: -60° C ~ +180° C.
Min bending radius	: fixed : 6 x D. mobile: 10 x D.
Insulation resistance	: > 20 M $\Omega$ /km.
Conductor resistance	: 0.74 mm <sup>2</sup> = 26 $\Omega$ /km. 1 mm <sup>2</sup> = 19.5 $\Omega$ /km. 1.5 mm <sup>2</sup> = 13.3 $\Omega$ /km. 2.5 mm <sup>2</sup> = 7.98 $\Omega$ /km. 4 mm <sup>2</sup> = 4.95 $\Omega$ /km. 6 mm <sup>2</sup> = 3.3 $\Omega$ /km.

### Standards:

Conductor	: IEC 60228 class 5, DIN EN 60228 class 5.
Insulation	: HD 22.1S4 E12 VDE 0282-1.
Insulation color coding	: VDE 0293, HD 308 S2.
Outer sheath	: HD 22.1S4 EM9 VDE 0282-1.
Min. bending radius	: IEC 60331-21.
Flame test	: IEC 60332-1-2, VDE 0482-265-2-1, EN 50265-2-1.
Smoke density	: IEC 61034-2 & DIN EN 50268-2.
Corrosive gas test	: IEC 60754-1-2 & DIN EN 50267-2-3.
Halogen test	: IEC 60754-1, VDE 0482-267-2-1, EN 50267.

### Applications:

This cable is used for command and power feed in environments where the ambient temperature is high and in facilities and machines which operate in dry, moist or wet conditions. Due to their low mechanical durability, they are not recommended for mobile use.



## DIMENSIONS

No. of cores x cross section mm <sup>2</sup>	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km	Standard length m
2 x 0.75	6.4	14.4	68	100/500/1000
3 x 0.75	6.8	21.8	88	100/500/1000
4 x 0.75	7.8	18.6	118	100/500/1000
5 x 0.75	8.5	36	136	100/500/1000
6 x 0.75	9.2	42	141	100/500/1000
7 x 0.75	9.2	50	158	100/500/1000
2 x 1	6.6	19.2	72	100/500/1000
3 x 1	7.4	28.9	90	100/500/1000
4 x 1	8	38	122	100/500/1000
5 x 1	8.8	48	142	100/500/1000
6 x 1	9.5	58	178	100/500/1000
7 x 1	9.5	67	190	100/500/1000
2 x 1.5	7.6	28.8	108	100/500/1000
3 x 1.5	8	44	123	100/500/1000
4 x 1.5	8.8	58	159	100/500/1000
5 x 1.5	9.6	72	200	100/500/1000
6 x 1.5	10.4	86	228	100/500/1000
7 x 1.5	10.4	101	150	100/500/1000
12 x 1.5	13.6	174	372	100/500/1000
20 x 1.5	17.5	288	610	100/500
24 x 1.5	19.8	345	738	100/500
2 x 2.5	9.2	50	137	100/500/1000
3 x 2.5	9.5	72	148	100/500/1000
4 x 2.5	10.4	96	226	100/500/1000
5 x 2.5	11	120	293	100/500/1000
6 x 2.5	12.6	144	338	100/500/1000
7 x 2.5	12.6	168	368	100/500/1000
2 x 4	10.8	78	215	100/500/1000
3 x 4	11.4	115	272	100/500/1000
4 x 4	13.1	154	345	100/500/1000
5 x 4	14.4	192	382	100/500
7 x 4	16.2	269	543	100/500
2 x 6	18	403	675	100/500/1000
3 x 6	13.2	115	299	100/500/1000
4 x 6	14	173	378	100/500
5 x 6	16.2	230	514	100/500
7 x 6	17	288	598	100/500
4 x 10	20	360	831	100/500
5 x 10	22.2	455	935	100/500

