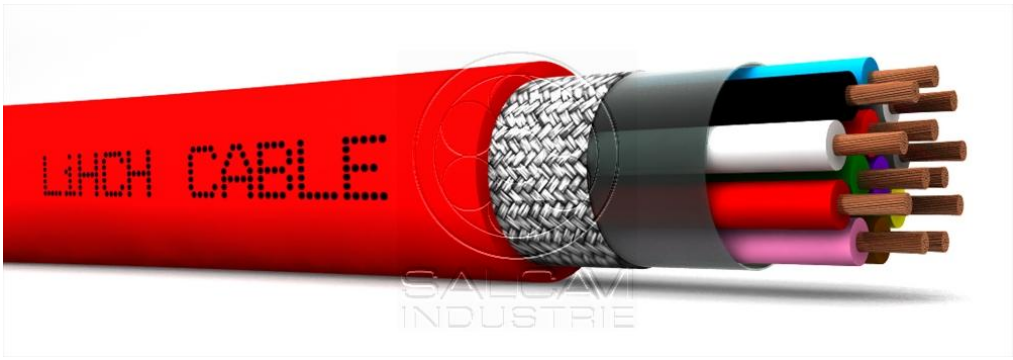
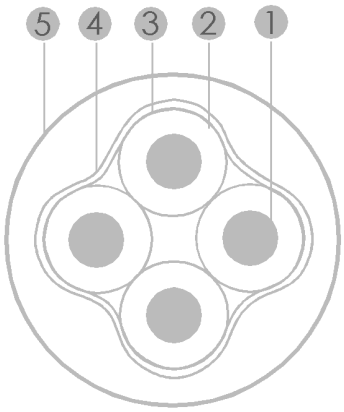
TECHNICAL DATA SHEET

Cavo di segnale privo di alogeni schermato LiHCH
Halogen-free screened signal cable LiHCH





SCHEMATIC DRAWING

APPLICAZIONI
APPLICATIONS

Cavo multipolare flessibile schermato, con isolamento e guaina in materiale termoplastico privo di alogeni, idoneo per controllo e trasmissione dati. Non propagante l'incendio secondo la norma IEC 60332-3-24

Thermoplastic halogen-free jacketed and insulated multi-core flexible cable that is intended for control and data transmission. It's fire retardant according to IEC 60332-3-24 requirements

COSTRUZIONE
CABLE STRUCTURE

1. Conduttore flessibile in rame elettrolitico rosso o stagnato
   Flexible electrolytic bare or tinned copper conductor
2. Isolamento in materiale termoplastico privo di alogeni tipo M1
   M1 type thermoplastic halogen-free insulation
3. Nastro mylar (PET)
   Mylar (PET) tape
4. Schermo a treccia in rame elettrolitico stagnato
   Braided electrolytic tinned copper screen
5. Guaina in materiale termoplastico privo di alogeni tipo M1
   M1 type thermoplastic halogen-free outer sheath

Temperatura utilizzo *Temperature range*	-20 ÷ 70 °C (fixed)	Esente da alogeni *Halogen-free*	EN 50525-1, EN 50267-2-2, EN 50267-2-1, EN 60884-2
Temperatura di corto circuito *Short-circuit temperature*	160°C	Resistenza all'incendio *Fire resistance*	IEC 60332-3-24
Tensione di esercizio *Rated voltage*	300 V_{AC}	Idoneo per posa interna *Suitable for indoor use*	
Tensione di prova *Test voltage*	1500 V_{AC}	Idoneo per posa fissa *Suitable for fixed installation*	
Resistenza alla fiamma *Flame resistance*	IEC 60332-1-2	Raggio di curvatura *Bending radius*	≥ 12 x D (fixed)

Revision Date	Issue n.	Approved by	Page: 1 / 4
19/02/2014	1.0	UTC	

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Sezione *Size conductor* [mm²]	Formazione conduttore *Conductor stranding* [N° x mm]	Resistenza elettrica *Electrical resistance* *Bare copper* [Ω/Km]	*Tinned copper* [Ω/Km]	Diametro su isolamento *Diameter on insulation* [mm]	Spessore di isolamento *Radial thickness of insulation* [mm]
0.14	18 x 0.100	≤ 138	≤ 150	1.05 ± 0.1	≥ 0.35
0.25	14 x 0.150	≤ 78.0	≤ 79.0	1.25 ± 0.1	≥ 0.35
0.35	11 x 0.193	≤ 57.0	≤ 58.0	1.55 ± 0.1	≥ 0.40
0.50	16 x 0.193	≤ 39.0	≤ 40.1	1.75 ± 0.1	≥ 0.40
0.75	24 x 0.193	≤ 26.0	≤ 26.7	1.9 ± 0.1	≥ 0.40
1	32 x 0.193	≤ 19.5	≤ 20.0	2.2 ± 0.1	≥ 0.50
1.5	28 x 0.243	≤ 13.5	≤ 13.7	2.6 ± 0.1	≥ 0.60
2.5	48 x 0.243	≤ 7.98	≤ 8.21	3.3 ± 0.1	≥ 0.60

Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 0.14	3.7 ± 0.2	≥ 0.50
3 x 0.14	3.9 ± 0.2	≥ 0.50
4 x 0.14	4.1 ± 0.2	≥ 0.50
5 x 0.14	4.4 ± 0.2	≥ 0.50
6 x 0.14	4.8 ± 0.2	≥ 0.50
7 x 0.14	4.8 ± 0.2	≥ 0.50
8 x 0.14	5.1 ± 0.2	≥ 0.50
10 x 0.14	5.8 ± 0.2	≥ 0.50
12 x 0.14	6.1 ± 0.2	≥ 0.60
14 x 0.14	6.3 ± 0.2	≥ 0.60
16 x 0.14	6.7 ± 0.2	≥ 0.60
19 x 0.14	7.5 ± 0.2	≥ 0.80
21 x 0.14	7.8 ± 0.2	≥ 0.80
25 x 0.14	8.8 ± 0.2	≥ 0.80

Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 0.25	4.2 ± 0.2	≥ 0.60
3 x 0.25	4.5 ± 0.2	≥ 0.60
4 x 0.25	4.9 ± 0.2	≥ 0.60
5 x 0.25	5.2 ± 0.2	≥ 0.60
6 x 0.25	5.5 ± 0.2	≥ 0.60
7 x 0.25	5.5 ± 0.2	≥ 0.60
8 x 0.25	6.3 ± 0.2	≥ 0.70
10 x 0.25	7.0 ± 0.2	≥ 0.70
12 x 0.25	7.2 ± 0.2	≥ 0.70
14 x 0.25	7.6 ± 0.2	≥ 0.70
16 x 0.25	8.1 ± 0.2	≥ 0.80
19 x 0.25	8.6 ± 0.2	≥ 0.90
21 x 0.25	9.1 ± 0.2	≥ 0.90
25 x 0.25	10.4 ± 0.2	≥ 1.0

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Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 0.35	4.7 ± 0.2	≥ 0.50
3 x 0.35	4.9 ± 0.2	≥ 0.50
4 x 0.35	5.4 ± 0.2	≥ 0.60
5 x 0.35	6.0 ± 0.2	≥ 0.60
6 x 0.35	6.4 ± 0.2	≥ 0.60
7 x 0.35	6.4 ± 0.2	≥ 0.60
8 x 0.35	7.2 ± 0.2	≥ 0.60
10 x 0.35	8.1 ± 0.2	≥ 0.60
12 x 0.35	8.4 ± 0.2	≥ 0.60
14 x 0.35	8.8 ± 0.2	≥ 0.70
16 x 0.35	9.3 ± 0.2	≥ 0.70
19 x 0.35	10.3 ± 0.2	≥ 0.90
21 x 0.35	10.8 ± 0.3	≥ 0.90
25 x 0.35	12.1 ± 0.3	≥ 0.90

Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 0.50	5.1 ± 0.2	≥ 0.50
3 x 0.50	5.4 ± 0.2	≥ 0.50
4 x 0.50	5.9 ± 0.2	≥ 0.60
5 x 0.50	6.4 ± 0.2	≥ 0.60
6 x 0.50	7.1 ± 0.2	≥ 0.60
7 x 0.50	7.1 ± 0.2	≥ 0.60
8 x 0.50	7.7 ± 0.2	≥ 0.60
10 x 0.50	8.9 ± 0.2	≥ 0.60
12 x 0.50	9.2 ± 0.2	≥ 0.60
14 x 0.50	9.8 ± 0.2	≥ 0.70
16 x 0.50	10.3 ± 0.2	≥ 0.70
19 x 0.50	11.4 ± 0.3	≥ 0.90
21 x 0.50	12.1 ± 0.3	≥ 0.90
25 x 0.50	13.4 ± 0.3	≥ 0.90

2 x 0.75	5.4 ± 0.2	≥ 0.50
3 x 0.75	5.8 ± 0.2	≥ 0.50
4 x 0.75	6.3 ± 0.2	≥ 0.50
5 x 0.75	6.9 ± 0.2	≥ 0.60
6 x 0.75	7.5 ± 0.2	≥ 0.60
7 x 0.75	7.5 ± 0.2	≥ 0.60
8 x 0.75	8.2 ± 0.2	≥ 0.60
10 x 0.75	9.4 ± 0.2	≥ 0.60
12 x 0.75	9.8 ± 0.2	≥ 0.60
14 x 0.75	10.5 ± 0.2	≥ 0.70
16 x 0.75	11.1 ± 0.3	≥ 0.70
19 x 0.75	12,1 ± 0.3	≥ 0.90
21 x 0.75	12.9 ± 0.3	≥ 0.90
25 x 0.75	14.3 ± 0.3	≥ 0.90

2 x 1	6.2 ± 0.2	≥ 0.60
3 x 1	6.6 ± 0.2	≥ 0.60
4 x 1	7.2 ± 0.2	≥ 0.60
5 x 1	7.8 ± 0.2	≥ 0.60
6 x 1	8.6 ± 0.2	≥ 0.60
7 x 1	8.6 ± 0.2	≥ 0.60
8 x 1	9.9 ± 0.2	≥ 0.60
10 x 1	11.1 ± 0.3	≥ 0.70
12 x 1	11.5 ± 0.3	≥ 0.80
14 x 1	12.2 ± 0.3	≥ 0.80
16 x 1	13.2± 0.3	≥ 1.0
19 x 1	13.9 ± 0.3	≥ 1.0
21 x 1	14.8 ± 0.3	≥ 1.1
25 x 1	16.8 ± 0.4	≥ 1.2

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Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 1.5	7.2 ± 0.2	≥ 0.60
3 x 1.5	7.7 ± 0.2	≥ 0.70
4 x 1.5	8.3 ± 0.2	≥ 0.70
5 x 1.5	9.1 ± 0.2	≥ 0.70
6 x 1.5	9.9 ± 0.2	≥ 0.70
7 x 1.5	9.9 ± 0.2	≥ 0.70
8 x 1.5	11.0 ± 0.3	≥ 0.70
10 x 1.5	12.7 ± 0.3	≥ 0.70
12 x 1.5	13.3 ± 0.3	≥ 0.80
14 x 1.5	14.1 ± 0.3	≥ 0.80
16 x 1.5	15.0 ± 0.3	≥ 0.90
19 x 1.5	16.2 ± 0.4	≥ 1.1
21 x 1.5	17.4 ± 0.4	≥ 1.2
25 x 1.5	19.5 ± 0.4	≥ 1.2

Sezione *Size conductor* [mm²]	Diametro esterno *Outer diameter* [mm]	Spessore guaina *Thickness of jacket* [mm]
2 x 2.5	8.7 ± 0.2	≥ 0.70
3 x 2.5	9.3 ± 0.2	≥ 0.70
4 x 2.5	10.2 ± 0.2	≥ 0.70
5 x 2.5	11.2 ± 0.2	≥ 0.70
6 x 2.5	12.3 ± 0.3	≥ 0.70
7 x 2.5	12.3 ± 0.3	≥ 0.70
8 x 2.5	13.6 ± 0.3	≥ 0.80
10 x 2.5	15.9 ± 0.3	≥ 0.90
12 x 2.5	16.6 ± 0.4	≥ 0.90
14 x 2.5	17,5 ± 0.4	≥ 1.0
16 x 2.5	18.7 ± 0.4	≥ 1.0
19 x 2.5	19.9 ± 0.4	≥ 1.2
21 x 2.5	21.2 ± 0.4	≥ 1.2
25 x 2.5	23.8 ± 0.4	≥ 1.2

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