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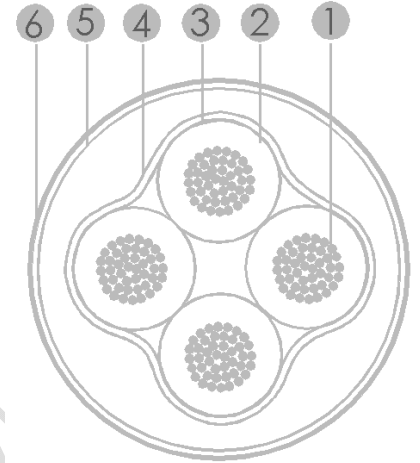
TECHNICAL DATA SHEET



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



SCHEMATIC DRAWINGS



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 Cat. C

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

COSTRUZIONE

CABLE STRUCTURE

1. Conduttore flessibile in rame elettrolitico rosso
Electrolytic bare copper flexible conductor
2. Isolamento in materiale termoplastico privo di alogeni tipo M1
M1 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. Nastro in tessuto non tessuto (TNT)
Fleece tape (TNT)
6. Guaina in materiale termoplastico privo di alogeni tipo M1
M1 thermoplastic halogen-free outer sheath

Temperatura utilizzo
Temperature range



- 20 ÷ 70 °C
[@ fixed installation]

Temperatura di corto circuito
Short-circuit temperature



160°C

Tensione di esercizio
Rated voltage



300 V_{ac}

Tensione di prova
Test voltage



1500 V_{ac}

Resistenza alla fiamma
Flame resistance



IEC 60332-1-2

Esente da alogeni
Halogen-free



EN 50525-1,
EN 50267-2-2,
EN 50267-2-1,
EN 60884-2

Resistenza all'incendio
Fire resistance



IEC 60332-3-24
Cat. C

Idoneo per posa interna
Suitable for indoor use



Idoneo per posa fissa
Suitable for fixed installation



Raggio di curvatura
Bending radius



≥ 12 x D
[@ fixed installation]

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Sezione <i>Size conductor</i> [mm ²]	Formazione conduttore <i>Conductor stranding</i> [N° x mm]	Resistenza elettrica <i>Electrical resistance</i> <i>Bare copper Tinned copper</i> [Ω/Km]		Diametro su isolamento <i>Diameter on insulation</i> [mm]	Spessore di isolamento <i>Radial thickness of insulation</i> [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 <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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
9 x 0.14	5.4 ± 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 <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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
9 x 0.25	6.6 ± 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 <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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
9 x 0.35	7.6 ± 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

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
9 x 0.75	8.8 ± 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

Sezione <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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
9 x 0.50	8.4 ± 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 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
9 x 1	10.6 ± 0.2	≥ 0.70
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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14/02/2018

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Sezione Size conductor [mm ²]	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
9 x 1.5	11.9 ± 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 [mm ²]	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
9 x 2.5	15.0 ± 0.3	≥ 0.90
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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Riferimento normativo <i>Standard reference</i>	Direttiva Europea Bassa Tensione No. 2014/35/UE <i>Low Voltage European Directive No. 2014/35/EU</i>
Conduttore <i>Stranding of conductor</i>	Conduttore flessibile in classe 5 in rame elettrolitico rosso o stagnato, conforme alla norma IEC 60228 (dove applicabile) <i>Class 5 flexible electrolytic bare or tinned copper conductor, complying with IEC 60228 standard (whereas it is applicable)</i>
Isolamento <i>Insulation</i>	Materiale termoplastico privo di alogeni tipo M1 conforme alla EN 50363-0, tipo HM2 secondo norma VDE 0207 Parte 24, LTS1 ed LTS3 secondo norma BS7655, durezza : (50 ± 1) Sh-D <i>Halogen-free thermoplastic material M1 type conforming to EN 50363-0 standard, HM2 type conforming to VDE 0207 Part 24 standard, LTS1 and LTS3 conforming to BS 7655 standard, hardness : (50 ± 1) Sh-A</i>
Colore isolamento <i>Color of insulation</i>	Su richiesta del cliente <i>On customer's request</i>
Riunitura <i>Cable assembly</i>	Le anime verranno riunite insieme con uno o più riempitivi, se necessario, e la treccia avvolta con un nastro in mylar (PET), schermata con schermo a treccia in rame stagnato ed avvolta con un nastro TNT. <i>The inner primaries are twisted together with one or more filler, if it will be necessary, then the cable assembly is taped with mylar (PET) tape, screened with braided electrolytic tinned copper screen and wrapped with a fleece (TNT) tape.</i>
Schermo <i>Screen</i>	Schermo a treccia in rame elettrolitico stagnato ; copertura ottica : ≥ 75 % <i>Braided electrolytic tinned copper screen ; optical coverage : ≥ 75 %</i>
Capacità conduttore-conduttore <i>Conductor to conductor capacitance</i>	(90 ± 9) pF/m
Capacità conduttore-schermo <i>Conductor to screen capacitance</i>	(180 ± 20) pF/m
Guaina <i>Outer sheath</i>	Materiale termoplastico privo di alogeni tipo M1 conforme alla EN 50363-0, tipo HM2 secondo norma VDE 0207 Parte 24, LTS1 ed LTS3 secondo norma BS7655, durezza : (50 ± 1) Sh-D <i>Halogen-free thermoplastic material M1 type conforming to EN 50363-0 standard, HM2 type conforming to VDE 0207 Part 24 standard, LTS1 and LTS3 conforming to BS 7655 standard, hardness : (50 ± 1) Sh-A</i>
Colore guaina <i>Color of outer sheath</i>	Su richiesta del cliente <i>On customer's request</i>

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Contenuto di alogeni
Assesment of halogens

- pH : in conformità alla BS EN 50267-2-2:1999
- conduttività : in conformità alla BS EN 50267-2-2:1999
- quantità di gas acidi alogeni HCl, HBr, HF : in conformità alla EN 50267-2-1:1999
- densità ottica dei fumi : in conformità alla BS EN 61034-2:2005
- indice di ossigeno : in conformità alla ISO 4589
- *pH : accordingly to BS EN 50267-2-2:1999*
- *conductivity : accordingly to BS EN 50267-2-2:1999*
- *amount of halogen gas acid HCl, HBr, HF : accordingly to EN 50267-2-1:1999*
- *smoke density : accordingly to BS EN 61034-2:2005*
- *oxygen index : accordingly to ISO 4589*

Marcatura
Marking

Marcatura a getto d'inchiostro : SALCAVI TECHNIC SPA ITALY - LIHCH No. x SEZIONE
CONDUTTORI - SS/AA
Ink-jet marking : SALCAVI TECHNIC SPA ITALY - LIHCH No. x SIZE OF CONDUCUTOR - WW/YY

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