



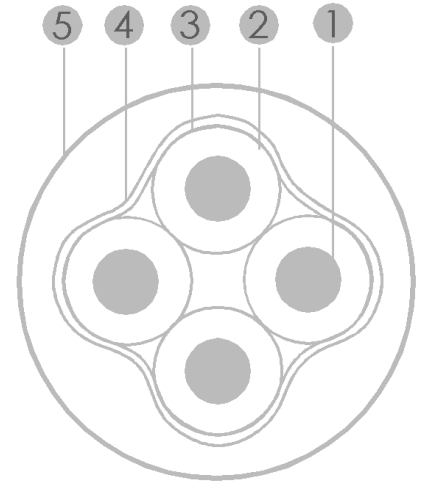
SALCAVI
INDUSTRIE

TECHNICAL DATA SHEET



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Cavo segnale schermato LiYCY Signal screened cable LiYCY



SCHEMATIC DRAWINGS



APPLICAZIONI APPLICATIONS

Cavo multipolare flessibile schermato, con isolamento e guaina in PVC, idoneo per controllo e trasmissione dati.

PVC jacketed and insulated multi-core flexible screened cable that is intended for control and data transmission.

COSTRUZIONE

CABLE STRUCTURE

1. Conduttore flessibile in rame elettrolitico rosso o stagnato
Electrolytic bare or tinned flexible copper conductor
2. Isolamento in PVC T11
T11 PVC insulation
3. Nastro mylar (PET)
Mylar (PET) tape
4. Schermo a treccia in rame elettrolitico stagnato
Braided electrolytic tinned copper screen
5. Guaina in PVC TM2
TM2 PVC 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}

Idoneo per posa interna
Suitable for indoor use



Idoneo per posa fissa
Suitable for fixed installation



Raggio di curvatura
Bending radius



≥ 10 x D
[@ fixed installation]

Resistenza alla fiamma
Flame resistance



IEC 60332-1-2

Revision Date
09/02/2016

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1.0

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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>		Diametro su isolamento <i>Diameter on insulation</i> [mm]	Spessore di isolamento <i>Radial thickness of insulation</i> [mm]
		<i>Bare copper</i> [Ω/Km]	<i>Tinned copper</i> [Ω/Km]		
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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+39 0541 921101 +39 0541 921494 info@salcavi.com www.salcavi.com



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

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 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

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

Sezione <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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 <i>Size conductor</i> [mm ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [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/UE</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 electrolytic bare or tinned flexible copper conductor, complying with IEC 60228 standard (where it is applicable)</i>
Isolamento <i>Insulation</i>	PVC T11 conforme alla EN 50363-3, durezza : [92 ± 2] Sh-A <i>T11 PVC, complies with EN 50363-3, hardness : [92 ± 2] 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). <i>The inner primaries will be twisted together with one or more filler, if it will be necessary, and the cable assembly will be taped with mylar (PET) 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>	PVC TM2 conforme alla EN 50363-4-1, durezza : [76 ± 2] Sh-A <i>TM2 PVC complies with EN 50363-4-1, hardness : [76 ± 2] Sh-A</i>
Colore guaina <i>Color of outer sheath</i>	Su richiesta del cliente <i>On customer's request</i>
Marcatura <i>Marking</i>	Marcatura a getto d'inchiostro : SALCAVI TECHNIC SPA ITALY - Li'YCY "SEZIONE" - "SS/AA" <i>Ink-jet marking : SALCAVI TECHNIC SPA ITALY - Li'YCY "SIZE OF CONDUCTOR" - "WW/YY"</i>

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09/02/2016

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