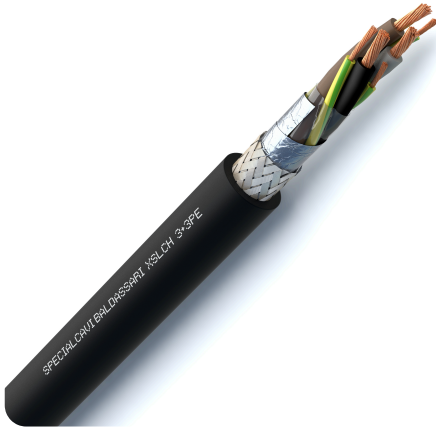


XSLCH-J 3+3PE Cca

CPR CLASS: EN 50575:2014+A1:2016 Cca-s1a,d0,a1



The product render is for illustration only.
Copyright Specialcavi Baldassari S.r.l. (C.F. 01387320466) – all rights reserved.

Application

LSZH shielded cable, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Ideal for servo and motor power with frequency converters, featuring EMC-optimized construction. The symmetrical construction (3+3PE) ensures voltage symmetry at motor terminals. Suitable for fixed and mobile laying in industrial plants, process lines, and machinery in standard or humid environments. Buried laying (direct and with protection) and outdoor laying with UV protection are allowed.

Marking

<meters> CE 0987 SPECIALCAVI BALDASSARI XSLCH-J <formation> mm2 CCA-S1A,D0,A1 MADE IN ITALY <lot> <year>

Manufacturing characteristics

Conductor: bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228

Insulation: LSZH crosslinked compound

Wrapping and protection: polyester tape

Screen:

First screen: aluminium/polyester tape

Second screen: tinned copper braid

Outer sheath: LSZH thermoplastic compound

Outer sheath colour: black, based on RAL 9005

Cable geometry: round

On request

- Custom cores and outer sheath colouring
- Available also in B2ca-s1a, d0, a1 CPR class

Reaction to fire - EN 13501-6

Reaction to fire according to EN 13501-6: Class

Cca

Reaction to fire according to EN 13501-6: Smoke production

s1a

Reaction to fire according to EN 13501-6: Flaming droplets/particles

d0

Reaction to fire according to EN 13501-6: Acidity

a1

Specify standards

CPR standard for reaction to fire

Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test: EN 50399

Electrical characteristics

Nominal voltage U_0 :

- 600V

Nominal voltage U :

- 1000V

Sheath operating voltage:

- 600/1000V

Test voltage:

- 4,0kV 50Hz A.C. (5 min) c-c
- 3,0kV 50Hz A.C. (1 min) c-s

Maximum voltage:

- U_0/U 1800/1800V D.C.
- U_0/U 693/1200V A.C.

Minimum insulation resistance:

- >200M Ω xKm

Temperatures

Permitted cable outer temperature during assembling/handling
-5°C

Operating temperature range
Fixed laying: -40°C | +90°C
Occasional mobile laying w/o stress: -5°C | +90°C

Maximum conductor temperature
Fixed laying: +90°C
Occasional mobile laying w/o stress: +90°C













Maximum short-circuit temperature
+250°C

Product characteristics

Flame retardant	IEC 60332-1-2	✓
	IEC 60332-3-21 (Cat A F/R)	✗
	IEC 60332-3-22 (Cat A)	✗
	IEC 60332-3-23 (Cat B)	✗
	IEC 60332-3-24 (Cat C)	✓
	IEC 60332-3-25 (Cat D)	✓
Low smoke	EN IEC 61034-2	✓
Halogen Free	EN IEC 60754-1	✓
	EN IEC 60754-2	✓
	EN IEC 60754-3	✗

Oil resistant	EN IEC 60811-404	✓
Low temperature resistant	EN 60811-504+505+506	✓
UV resistant		✗
Ozone resistant		✗
Hydrocarbons resistant	ENI 181	✓
Fire resistant	IEC 60331-1 (diameter > 20 mm) or EN 50200 (diameter < 20 mm)	✗
Presence of water	HD 60364-5-54:2009	AD7
Impact resistant	HD 60364-5-54:2009	✗

Laying conditions

 FIXED LAYING ✓	 INDOOR LAYING ✓	 LAYING IN AIR WITH PROTECTION ✓	 MAXIMUM TENSILE STRENGTH DURING INSTALLATION 0,015 kN in fixed laying 0,050 kN during installation
 MOBILE LAYING ✗	 OUTDOOR LAYING yes, with UV protection	 DIRECTLY BURIED LAYING ✓	 WITH RODENT PROTECTION ✗
 OCCASIONAL MOBILE LAYING W/O STRESS ✓	 LAYING IN FREE AIR ✓	 BURIED LAYING WITH PROTECTION ✓	 MINIMUM BENDING RADIUS Fixed laying: 8 times the outer diameter Occasional mobile laying w/o stress: 15 times the outer diameter

XSLCH-J 3+3PE Cca

Nominal cross section conductor [mm ²]	Conductor resistance at 20°C [Ohm/Km]
1.50 0.25	13,3 75
2.50 0.50	7,98 39,0
4.00 0.75	4,95 26,0
6.00 1.00	3,30 19,5
10.00 1.50	1,91 13,3
16.00 2.50	1,21 7,98
25.00 4.00	0,780 4,95
35.00 6.00	0,554 3,30
50.00 10.00	0,386 1,91
70.00 10.00	0,272 1,91
95.00 16.00	0,206 1,21
120.00 16.00	0,161 1,21
150.00 25.00	0,129 0,780
185.00 35.00	0,106 0,554
240.00 42.50	0,0801 0,457
300.00 50.00	0,0641 0,386

XSLCH-J 3+3PE Cca

Article code	Formation [n° x mm ²]	Twisted/stranded cores	Outer diameter approx [mm]	Weight approx [Kg/Km]	Cores colour	EPD
2CHKJ15003	3 X 1,50 + 3 G 0,25	Cores stranded in concentric layers	10,7	158	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✘
2CHKJ25003	3 X 2,50 + 3 G 0,50	Cores stranded in concentric layers	11,4	219	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ40003	3 X 4,00 + 3 G 0,75	Cores stranded in concentric layers	13,3	318	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ60003	3 X 6,00 + 3 G 1,00	Cores stranded in concentric layers	14,5	399	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ100003	3 X 10,00 + 3 G 1,50	Cores stranded in concentric layers	17,2	580	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ160003	3 X 16,00 + 3 G 2,50	Cores stranded in concentric layers	19,5	812	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ250003	3 X 25,00 + 3 G 4,00	Cores stranded in concentric layers	23,6	1220	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ350003	3 X 35,00 + 3 G 6,00	Cores stranded in concentric layers	26,7	1622	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ500003	3 X 50,00 + 3 G 10,00	Cores stranded in concentric layers	31,1	2301	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ700003	3 X 70,00 + 3 G 10,00	Cores stranded in concentric layers	36,3	3011	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ950003	3 X 95,00 + 3 G 16,00	Cores stranded in concentric layers	39,4	3848	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ1200003	3 X 120,00 + 3 G 16,00	Cores stranded in concentric layers	44,3	4781	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ1500003	3 X 150,00 + 3 G 25,00	Cores stranded in concentric layers	47,0	6054	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ1850003	3 X 185,00 + 3 G 35,00	Cores stranded in concentric layers	53,1	6772	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✔
2CHKJ2400003	3 X 240,00 + 3 G 42,50	Cores stranded in concentric layers	58,8	9502	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✘
2CHKJ3000003	3 X 300,00 + 3 G 50,00	Cores stranded in concentric layers	66,0	11291	Brown-Black-Grey-Green/Yellow-Green/Yellow-Green/Yellow	✘