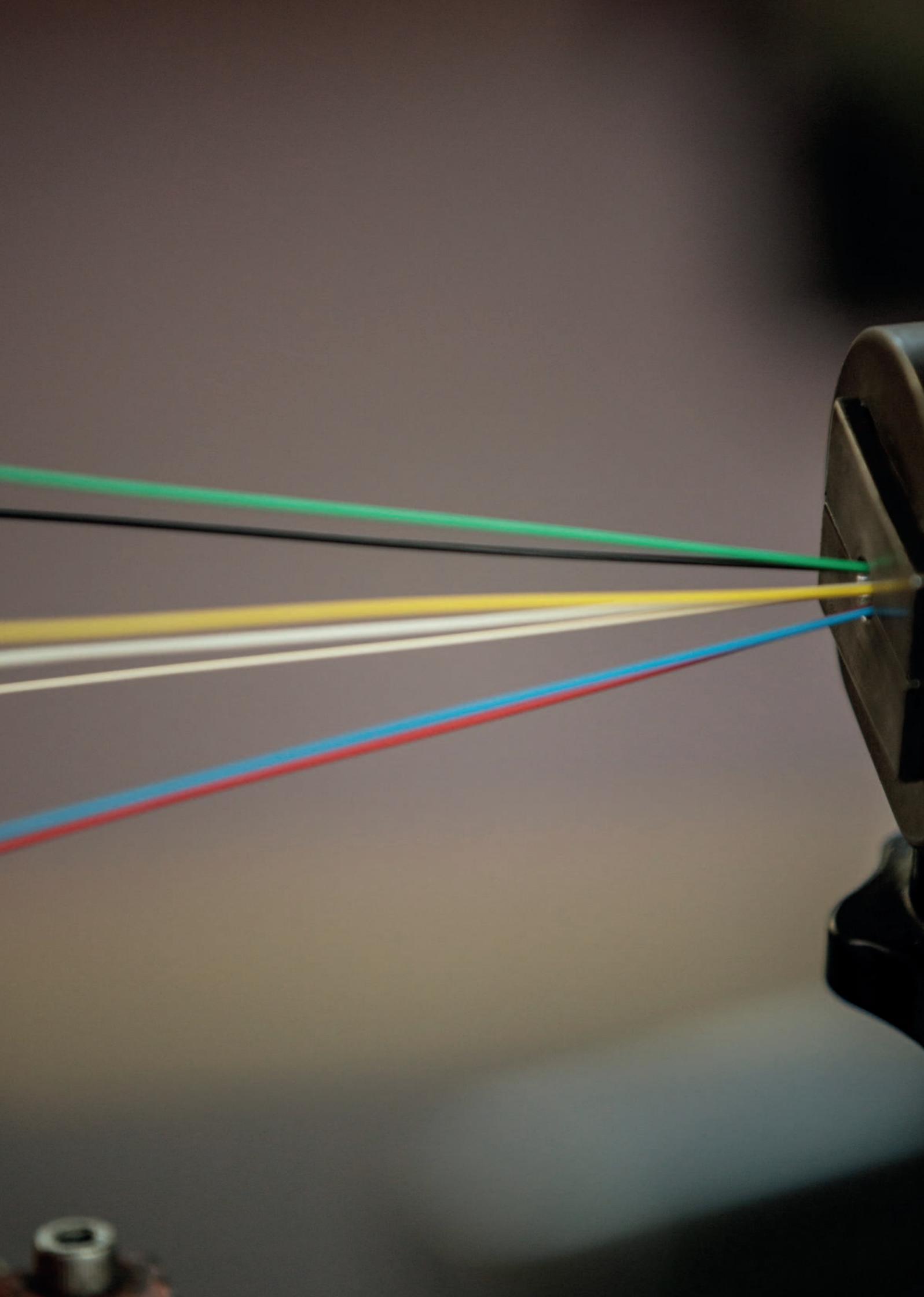




AUTOMATION CABLES



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Who we are

Specialcavi is a manufacturing company founded in 1990, specialized in the production of electrical cables. We operate throughout Europe and offer a wide range of cables designed for various applications, including data transmission, power, control and signaling, solar systems, fire-resistant solutions, for both civil and industrial uses. Moreover, we design and manufacture custom cables based on specific customer requirements.

INNOVATION AND PRODUCT QUALITY CONTROL

We continuously upgrade our machinery, equipment, and instruments to keep pace with ongoing technological innovation.

All our cables undergo thorough internal quality checks in compliance with the latest Italian, European, and international standards.



QUALIFIED STAFF AND CUSTOMER-CENTRIC APPROACH

Our goal is not only to be reliable suppliers, but exceptional partners for our clients.

We strive to ensure complete customer satisfaction through the quality and reliability of our products, supported by attentive and competent pre- and post-sales service.

CERTIFICATIONS AND QUALITY

We have obtained major quality certifications and environmental sustainability ratings, demonstrating our commitment to excellence in cable manufacturing, sustainability, and corporate social responsibility.

OUR NEW WEBSITE: www.specialcavi.it

We have redesigned our website to offer a clearer, more functional experience tailored to your professional needs.

The new structure simplifies access to product information and technical documentation.

Each section is designed to guide you in selecting the most suitable cable for your applications, with regularly updated and easily accessible content.

About the cables

Electrical cables for industrial automation are designed to ensure safe and reliable transmission of power, signals, and data within automated systems and machinery.

- **Signal and control cables** are used to connect sensors, actuators, and control devices; they must ensure precise transmission and resistance to interference.
- **Power cables**, on the other hand, deliver energy to motors and electrical equipment, ensuring continuity and safety even in demanding industrial environments.

Thanks to their construction, automation cables are essential for the proper functioning of machine-mounted electrical systems in industrial applications.

Below is the list of automation cables manufactured by Specialcavi.

For each product, you will find manufacturing characteristics, CPR classification, and application details, along with a dedicated QR code.

HOW DOES THE QR CODE WORK?

By scanning the QR code with a smartphone or tablet, you will be redirected directly to the product page on our website.

It's a simple and immediate way to always have access to the most up-to-date information, wherever you are.

From there, you can access in real time:

- Technical datasheet
- Declaration of Performance (DoP)
- CE declaration
- Technical, application, and regulatory specifications

2XSLCH-J 3+3PE



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

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

APPLICATIONS

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.

2XSLCH-J 4G



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

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

APPLICATIONS

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. 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.

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** crosslinked polyethylene (XLPE) compound, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape
 - *Second screen:* tinned copper braid
- **Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath colour:** black, based on RAL 9005
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Dca-s3,d2,a3

APPLICATIONS

Shielded cable, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Ideal for powering servo and motor with frequency converters, featuring EMC-optimized construction. The symmetrical construction (3+3PE) ensures voltage symmetry at the motor terminals. Suitable for static and dynamic connections in industrial plants, process lines, and machinery in normal or damp environments. Buried laying (direct and with protection) and outdoor laying are allowed (AD7 water presence condition).

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** crosslinked polyethylene (XLPE) compound, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape
 - *Second screen:* tinned copper braid
- **Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath colour:** black, based on RAL 9005
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Dca-s3,d2,a3

APPLICATIONS

Shielded cable, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Ideal for powering servo and motor with frequency converters, with EMC-optimized construction. Suitable for static and dynamic connections in industrial plants, process lines, and machinery in normal or damp environments. Buried laying (direct and with protection) and outdoor laying are allowed (AD7 water presence condition).

SCAN HERE



FROR16 O.R. DIN



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, R2 type, according to CEI 20-11
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11, oil resistant
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core data transmission cable with oil-resistant outer sheath, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Ideal for intercoms, civil, industrial, and machine-edge applications. Suitable for fixed laying or occasional acyclic mobile laying without stress. Buried laying and outdoor laying are not allowed.

FROR16 O.R. UNEL



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, R2 type, according to CEI 20-11
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11, oil resistant
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core energy and signalling cable with oil-resistant outer sheath, ideal for intercoms, civil, industrial, and machine-edge applications. Compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for fixed laying or occasional acyclic mobile laying without stress. Buried laying and outdoor laying are not allowed.

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, R2 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:** bare copper braid
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11, oil resistant
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3



APPLICATIONS

Multi-core shielded cable for power, control, signalling, command, or measurement compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. With an oil-resistant outer sheath, the shielding makes it ideal for civil and industrial applications, machine-edge, and where electromagnetic interference protection is required. Buried laying and fixed outdoor laying (even with protection) are not allowed, even if protected.

FM9OZ1



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** LSZH thermoplastic compound
- **Outer sheath:** LSZH thermoplastic compound
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH shielded cable for power or signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire-risk environments (such as schools, offices, theatres and hospitals). Must be protected from UV rays if stored outdoors. Buried laying and outdoor laying are not allowed.

FM9OH2Z1



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** LSZH thermoplastic compound
- **Wrapping and protection:** polyester tape
- **Screen:** bare copper braid
- **Outer sheath:** LSZH thermoplastic compound
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 B2ca-s1a,d0,a1

APPLICATIONS

Multi-core LSZH shielded cable for power or signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire-risk environments (such as schools, offices, theatres and hospitals). The shielding provides protection against electromagnetic interference. Must be protected from UV rays if stored outdoors. Buried laying and outdoor laying are not allowed.

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** LSZH thermoplastic compound
- **Outer sheath:** LSZH thermoplastic compound
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH cable for energy, signalling, control, or data transmission, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire-risk areas with a high presence of people. Must be UV protected if stored outdoors. Buried laying (direct and with protection) and outdoor laying with UV protection are allowed for sections $\geq 10\text{mm}^2$ (not allowed for sections $\leq 6\text{mm}^2$).

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** LSZH thermoplastic compound
- **Wrapping and protection:** polyester tape
- **Screen:** tinned copper braid
- **Outer sheath:** LSZH thermoplastic compound
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 B2ca-s1a,d0,a1

APPLICATIONS

Multi-core LSZH shielded cable for energy, signalling, control, or data transmission, compliant with CPR EU 305/11, designed to limit fire and smoke spread. Suitable for high fire risk, crowded places. Must be UV protected if stored outdoors. Buried laying (direct and with protection) and outdoor laying with UV protection are allowed for sections $\geq 10\text{mm}^2$ (not allowed for sections $\leq 6\text{mm}^2$).

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MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core cable for energy, signalling, control, or data transmission, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for machine wiring, production systems, and industrial plants. Buried laying (direct and with protection) and outdoor laying with UV protection are allowed for sections $\geq 10\text{mm}^2$ (not allowed for sections $\leq 6\text{mm}^2$).

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, flame retardant
- **Wrapping and protection:** polyester tape
- **Screen:** tinned copper braid
- **Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath colour:** grey, based on RAL 7001
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core shielded cable for energy, signalling, control, or data transmission, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for machine wiring, production systems, and industrial plants. Buried laying (direct and with protection) and outdoor laying with UV protection are allowed for sections $\geq 10\text{mm}^2$ (not allowed for sections $\leq 6\text{mm}^2$).

MANUFACTURING CHARACTERISTICS

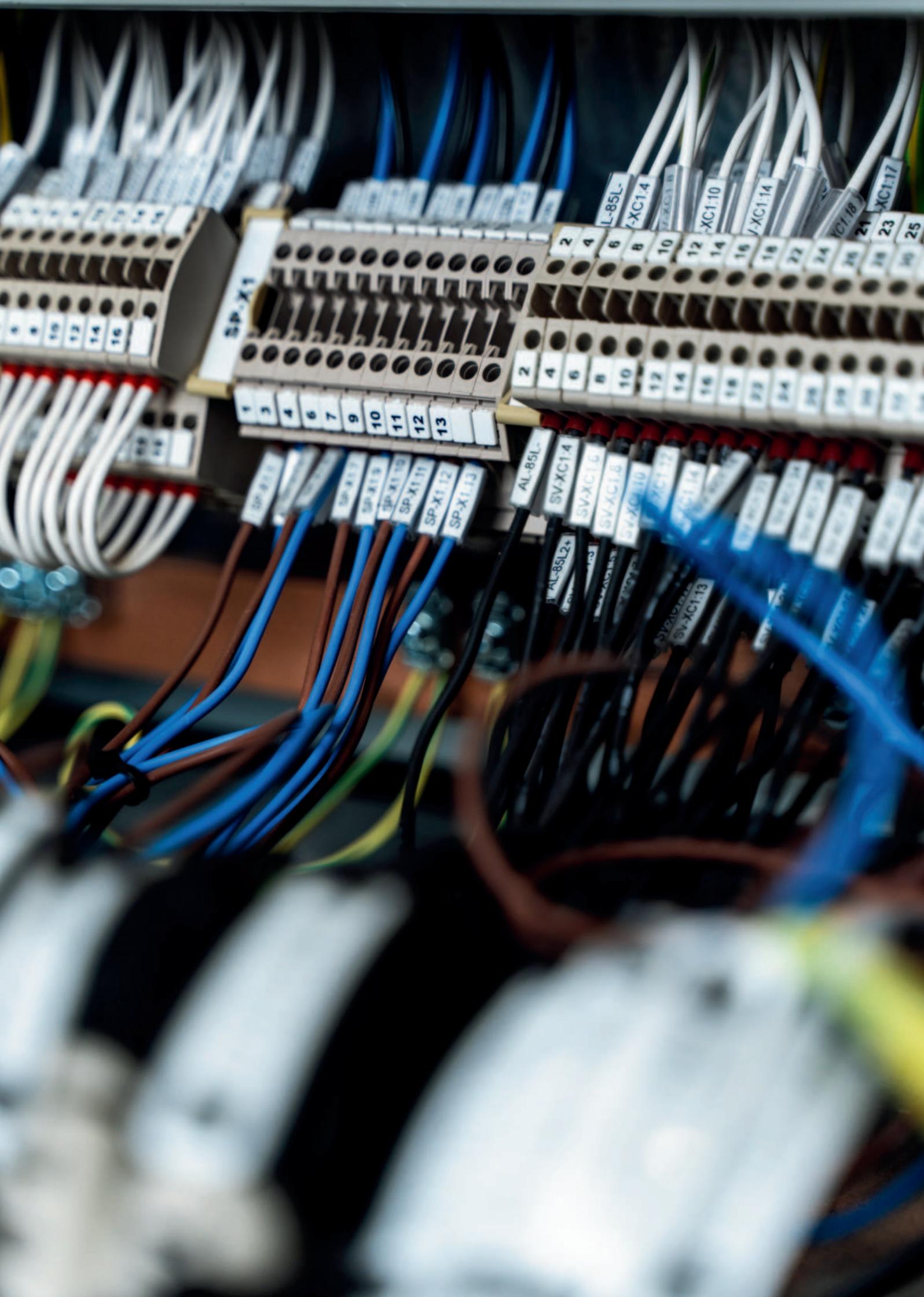
- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** polyvinyl chloride (PVC) compound, flame retardant
- **Screen:** tinned copper braid
- **Inner sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath:** polyvinyl chloride (PVC) compound, flame retardant
- **Outer sheath colour:** black, based on RAL 9005
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Dca-s3,d0,a3

APPLICATIONS

Multi-core shielded cable for energy, signalling, and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for machine wiring, production systems, and industrial plants. Buried laying (direct and with protection) and outdoor laying are allowed.





SP-X1

L-85L-

-XC1:4

-XC1:10

-XC1:14

-XC1:18

-XC1:17

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 25

1 3 4 6 7 9 10 11 12 13

SP-X1:1

SP-X1:2

SP-X1:3

SP-X1:4

SP-X1:5

SP-X1:6

AL-85L-

SV-XC1:4

SV-XC1:6

SV-XC1:8

SV-XC1:10

SV-XC1:12

SV-XC1:14

SV-XC1:16

SV-XC1:18

SV-XC1:20

SV-XC1:22

AL-85L2+

SV-XC1:13

SV-XC1:15

SV-XC1:17

SV-XC1:19

SV-XC1:21

SV-XC1:23

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:** bare copper braid
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

Single-core LSZH shielded power cable, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire risk areas with a high presence of people (such as schools, offices, theaters, hospitals). The shielding provides protection against electromagnetic interference. Must be protected from UV rays if stored or laid outdoors. Buried laying (direct and with protection) is allowed.

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:** bare copper braid
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH shielded power cable, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire risk areas with a high presence of people (such as schools, offices, theaters, hospitals). The shield provides protection against electromagnetic interference. Must be protected from UV rays if stored or laid outdoors. Buried laying (direct and with protection) is allowed.

SCAN HERE



FG16OHH2M16

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape
 - *Second screen:* bare copper braid.For phase core $\leq 16\text{mm}^2$, sections screen = sections phase.
For phase core = 25mm^2 , sections screen = 16mm^2 .
For phase core $> 25\text{mm}^2$, sections screen = 1/2 section phase.
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

LSZH cable with concentric shielding, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Ideal for servo and motor power supply with frequency converters, displaying an EMC-optimized construction. The symmetrical design ensures voltage symmetry at motor terminals. Especially suitable in places with fire hazards and a high presence of people. Buried laying (direct and with protection) and outdoor laying are allowed (AD7 water presence condition).

FG16OHH2R16

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape
 - *Second screen:* bare copper braid.For phase core $\leq 16\text{mm}^2$, sections screen = sections phase.
For phase core = 25mm^2 , sections screen = 16mm^2 .
For phase core $> 25\text{mm}^2$, sections screen = 1/2 section phase.
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Concentric shielded cable designed to limit the spread of fire and smoke. Ideal for servo and motor powered by frequency converters, with an EMC-optimized construction. The symmetric design ensures voltage symmetry on motor terminals. Buried laying (direct and with protection) and outdoor laying are allowed (AD7 water presence condition).

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Inner sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Armour:** galvanized steel braiding (braid wire nominal diameter $\geq 0,24\text{mm}$)
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH armoured cable for energy, signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for fire-risk areas with a high presence of people. The armouring makes it ideal for industrial applications with heavy-duty service needs. Must be protected from UV rays if stored or laid outdoor. Buried laying (direct and with protection) is allowed. AD7 water presence condition.



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Inner sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Armour:** galvanized steel braiding (braid wire nominal diameter $\geq 0,24\text{mm}$)
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core armoured cable for energy, signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. The armouring makes it ideal for industrial applications with heavy-duty service needs. Buried laying (direct and with protection) is allowed. AD7 water presence condition.



FG16OM16FM16

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Inner sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Armour:** galvanized steel wire (nominal wire diameter $\geq 0,60\text{mm}$) without counterspiral steel tape
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH armoured cable for energy, signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for fire-risk areas with a high presence of people. The armouring makes it ideal for industrial applications with heavy-duty service needs. Must be protected from UV rays if stored or laid outdoor. Buried laying (direct and with protection) is allowed. AD7 water presence condition.

FG16OR16FR16

SCAN HERE



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Inner sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Armour:** galvanized steel wire (nominal wire diameter $\geq 0,60\text{mm}$) without counterspiral steel tape
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3

APPLICATIONS

Multi-core armoured cable for energy, signalling and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. The armouring makes it ideal for industrial applications with heavy-duty service needs. Buried laying (direct and with protection) is allowed. AD7 water presence condition.

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:**
 - *First wrapping and protection:* polyester tape on single pair
 - *Second wrapping and protection:* polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape, with flexible tinned copper drain wire
 - *Second screen:* aluminium/polyester tape, with flexible tinned copper drain wire
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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



APPLICATIONS

LSZH data transmission cable, with overall (bare copper braid) and single pair (aluminum/polyester tape) shielding. Ideal for data transmission in industrial and residential environments. Suitable for fire-risk and high-occupancy areas. Compliant with EU CPR Regulation 305/11, designed to limit the spread of fire and smoke. Buried laying (direct and with protection) are allowed.

MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:**
 - *First wrapping and protection:* polyester tape on single pair
 - *Second wrapping and protection:* polyester tape
- **Screen:**
 - *First screen:* aluminium/polyester tape, with flexible tinned copper drain wire
 - *Second screen:* aluminium/polyester tape, with flexible tinned copper drain wire
- **Outer sheath:** polyvinyl chloride (PVC) compound, R16 type, according to CEI 20-11
- **Outer sheath colour:** grey, based on RAL 7035
- **Cable geometry:** round

CPR CLASS: EN 50575:2014+A1:2016 Cca-s2,d0,a3



APPLICATIONS

Data transmission cable with overall and single pair shielding, ideal for residential and industrial environments. Compliant with EU CPR Regulation 305/11, designed to limit the spread of fire and smoke. Suitable for fixed installation indoors (even wet) and outdoors on walkways, in pipes, etc. Buried laying (direct and with protection) and outdoor laying are allowed (AD7 water presence condition).



MANUFACTURING CHARACTERISTICS

- **Conductor:** bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228
- **Insulation:** hard grade ethylene propylene rubber (HEPR) compound, G16 type, according to CEI 20-11
- **Wrapping and protection:** polyester tape
- **Screen:** bare copper braid
- **Inner sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Armour:** galvanized steel wire (nominal wire diameter $\geq 0,60\text{mm}$) with counterspiral steel tape (nominal thickness $\geq 0,20\text{mm}$)
- **Outer sheath:** LSZH thermoplastic compound, M16 type, according to CEI 20-11
- **Outer sheath colour:** green, based on RAL 6024
- **Cable geometry:** round

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

APPLICATIONS

Multi-core LSZH shielded and armoured cable, ideal for power, signalling, and control, compliant with CPR EU 305/11, designed to limit the spread of fire and smoke. Suitable for high fire risk areas with a high presence of people. The shielding provides protection against electromagnetic interference, while the armouring offers mechanical protection. Must be protected from UV rays if stored or laid outdoors. Buried laying (direct and with protection) is allowed.



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