

ITC

MASTER CATALOG N°27

Cables and Accessories for all types of signal

MADE IN
ITALY

SINCE 1979



itc-belden.com





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Our History



A **BELDEN** BRAND

Certified Quality Management Systems
UNI EN ISO 9001:2015



The ITC Brand

Since 1979 all ITC branded products have been made in Italy and they ensure the best transmission for any type of signal.

Our solutions are examples of the reliability and expert care you can expect from ITC and the Belden Group.

All of the company's resources are used to ensure best performance and quality of the product as well as extremely short delivery terms both in Italy and abroad. Thanks to its technological state-of-the-art plant, research laboratory, selected raw materials and an ISO 9001:2015-certified organisation, the Company can produce cables to meet the most demanding and sophisticated requirements, in full compliance with the CPR Regulation and RoHS standards.

Since 2004 ITC has been part of the Belden Group and starting from 2020 has been part of the Smart Building division.

ITC S.r.l. site

Factory in Bagnacavallo (Ravenna) Italy



The Belden Group

Belden (NYSE: BDC) delivers the infrastructure that makes the digital journey simpler, smarter and secure. We're moving beyond connectivity, from what we make to what we make possible through a performance-driven portfolio, forward-thinking expertise and purpose-built solutions.

Our portfolio of solutions enables an increasingly digital and data driven world. We complete the connections between information and intelligence so that our customers can turn on a world of possibilities ahead of them. We build the infrastructure that empowers new and better ways of working and living. From smart buildings that run more sustainably to uninterrupted uptimes and streaming speeds, our customers count on us to deliver a resilient foundation—one that's ready to support today's digital demands and shape the digital reality ahead.

With a legacy of quality and reliability spanning 120-plus years, we have a strong foundation to continue building the future. We are headquartered in St. Louis and have manufacturing capabilities in North America, Europe, Asia, and Africa. For more information, visit us at www.belden.com



Our Company

ITC Production

The production of signal cables is divided into coaxial and multi-conductor cables.

Both processes are complex, technologically sophisticated and involve several stages and specialized skills. This type of cable is designed to carry data signals through one or more conductors inside a single protective sheath. The general production process of such cables is described below.

DESIGN

Production begins with the selection of the correct materials. The internal conductors can be made of copper, aluminum or special alloys depending on the required resistance and conductivity specifications. The choice of the external sheath depends on the final application of the cable, considering factors such as flame reaction, flexibility and insulation.

INSULATION

The conductors are covered with insulating materials essential to prevent short circuits and signal losses. Commonly used insulating materials include polyethylene, PVC (polyvinyl chloride) or LSZH (zero halogen), applied through an extrusion process.

TWISTING

Twisting is a crucial step in the production of multi-conductor cables. During this step, conductors are twisted together globally or in pairs to reduce electromagnetic interference (EMI) and improve signal quality.

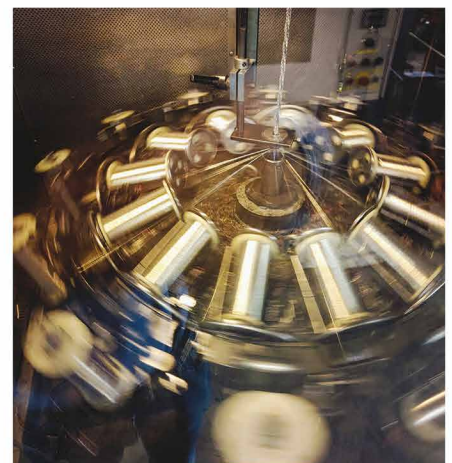
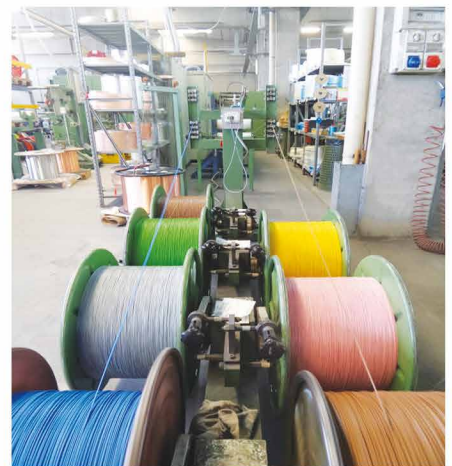
BRAIDING (SHIELDING)

After the conductors are insulated, most signal cables undergo a braiding process. In this phase, a metal wire braid—typically made of tinned or bare copper—is wrapped around the insulated conductors. This braid serves as an electromagnetic shield (EMC), protecting the signals within the cable from external interference and reducing electromagnetic noise. Braiding enhances signal quality and ensures compliance with electromagnetic compatibility (EMC) standards required for various applications.

SHEATH EXTRUSION

The set of conductors is enclosed in a protective outer sheath. This sheath can be made of plastic materials such as PVC, LSZH, PU, PE or Silicone that provide mechanical resistance and protection against environmental factors such as humidity, heat, chemical agents and fire resistance.

In conclusion, cable manufacturing demands meticulous design and high technical precision to guarantee the quality and reliability of the final product. These cables play a crucial role in industrial and commercial applications, ensuring the safe and efficient transmission of energy and signals.



Laboratory tests

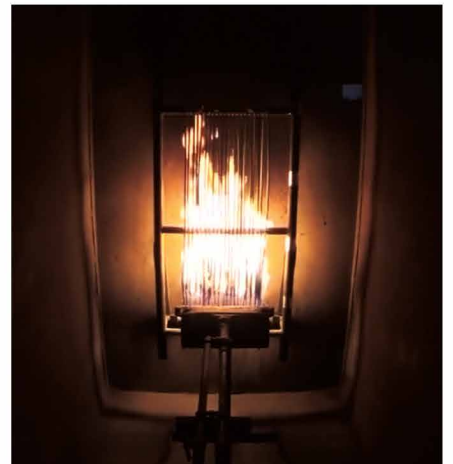
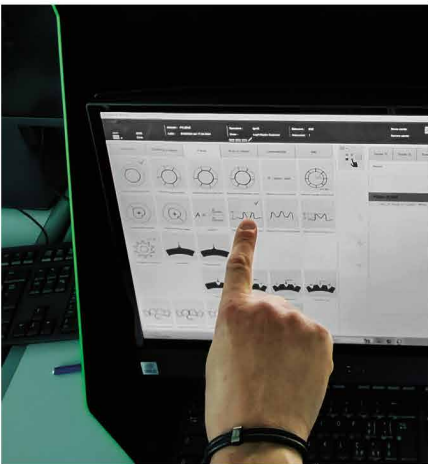
Throughout the entire production cycle, in-line inspections are conducted using state-of-the-art tools to ensure compliance and quality at every stage of processing.

After production, cables undergo a series of rigorous laboratory tests to verify their performance and adherence to safety and quality standards. These tests include electrical, transmission, and dimensional measurements.

For instance, insulation tests assess the effectiveness of the insulating layers, while tensile strength tests evaluate the cable's durability and resistance to mechanical stress. Additionally, environmental tests determine the cable's resilience to factors such as humidity, heat, and chemicals.

In accordance with Regulation (EU) No. 305/2011, all cables are subjected to stringent testing for fire reaction, gas emissions, and smoke opacity.

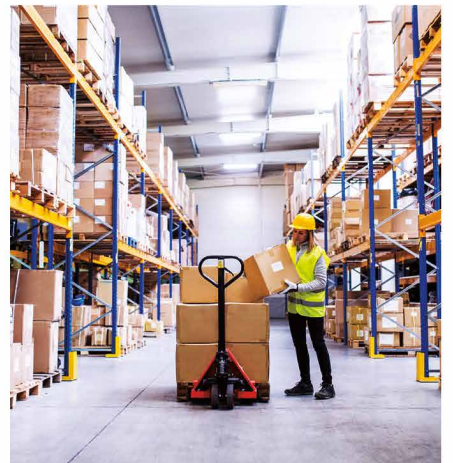
Only after successfully passing all these tests is the cable deemed ready for commercial and industrial use, guaranteeing safety and optimal performance.



Logistics

Beyond production and laboratory testing, logistics and traceability management play a vital role in ensuring quality and accountability in the cable industry. Throughout the entire production process, each batch of material and every processing step is uniquely identified with codes or serial numbers. This system enables continuous monitoring and recording, from raw material procurement to the shipment of the final product.

Such a high level of traceability is crucial for efficiently managing the supply chain, swiftly detecting any defects or anomalies, and ensuring compliance with customer specifications and industry regulations. Additionally, streamlined logistics are essential for coordinating the transportation and distribution of cables, guaranteeing fast and reliable deliveries that align with market demands.



CPR Regulation (UE 305/11)

The introduction of the CPR Regulation for construction products marked a turning point, mandating CE marking and a Declaration of Performance for all building materials sold in the European market. This regulation represents a significant revolution: cables used in any type of structure or engineering project—whether for power transmission or data communication—must now meet strict fire reaction standards to be considered compliant. This has significantly enhanced fire safety in buildings.

The challenges posed by the new regulation have demanded substantial effort from cable manufacturers. In this landscape, ITC stands out as a model of excellence, where technological advancement, deep expertise, and continuous investment in research and development translate into increasingly reliable and high-performing products.

At the same time, we are committed to raising awareness and promoting a thorough understanding of the European Construction Products Regulation—not only among industry professionals but also among designers, installers, and distributors.

The key benefits of the CPR Regulation

- **GREATER CLARITY AND TRACEABILITY**

Construction products come with precise documentation detailing their performance, ensuring full transparency and traceability.

- **ENHANCED SAFETY AND RELIABILITY**

New products undergo advanced fire performance testing, meeting higher safety and reliability standards than in the past.

- **IMPROVED PRODUCT QUALITY**

Stricter regulations help reduce counterfeit and non-compliant products, minimizing risks to people and property while enhancing fire safety.



Fire Reaction Classes

The regulation provides for 7 different classes based on the fire reaction performance, to date in Italy, only the black ones are provided for in the cables sector.

Each EU member state has defined its own fire reaction classes according to EN13501-6 starting from the 7 classes shown on the right.

In Italy the classes recognized by CEI UNEL 35016 are:

- B2ca - s1a, d1, a1
- Cca - s1b, d1, a1
- Cca - s3, d1, a3
- Eca



CPR Requirements

The Regulation makes both the Declaration of Performance and the CE marking of cables mandatory.

Labels

Our products are labeled according to the regulation and the data are reported in the right column next to the CE marking.

DOP

You can download the Declarations of Performance from www.itc-belden.com



Applications and Environments in ITALY

The right Euro-class is defined in the design context by design studios depending on the level of fire risk of the room in which the cable will be installed.

Below are some examples of buildings classified according to fire risk according to DPR 151/2011 VVF, the Euro-classes reported are only indicative, to identify the exact class refer to the CEI 46-136 standard and/or the technical specifications and/or the design studio.

	<h3 style="color: #4CAF50;">HIGH FIRE RISK</h3> <p>Airports, railway stations, maritime stations, underground railways that are completely or partially underground. Road tunnels longer than 500 m and railway tunnels longer than 1.000 m.</p> <p>Euroclass: B2ca-s1a,d1,a1 and in certain installations also Cca-s1b,d1,a1</p>
	<h3 style="color: #4CAF50;">MEDIUM FIRE RISK</h3> <p>Healthcare facilities, entertainment and performance venues, gyms and sports centres. Hotels, guest houses, motels, holiday villages and residences. Premises used for exhibitions and/or sales. Companies and offices with more than 300 people present; schools, libraries and archives, museums, galleries, exhibitions and shows. Buildings for civil use, with a fire safety height > 24m.</p> <p>Euroclass: Cca-s1b,d1,a1 or higher</p>
	<h3 style="color: #FFC107;">LOW FIRE RISK</h3> <p>Buildings intended for civil, residential and tertiary use, with a fire height of less than 24 meters, bars, restaurants, professional studios and offices.</p> <p>Euroclass: Eca, Cca-s3,d1,a3 or higher depending on the type of installation</p>

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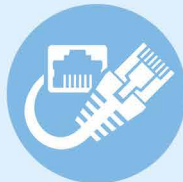
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Coaxial cables

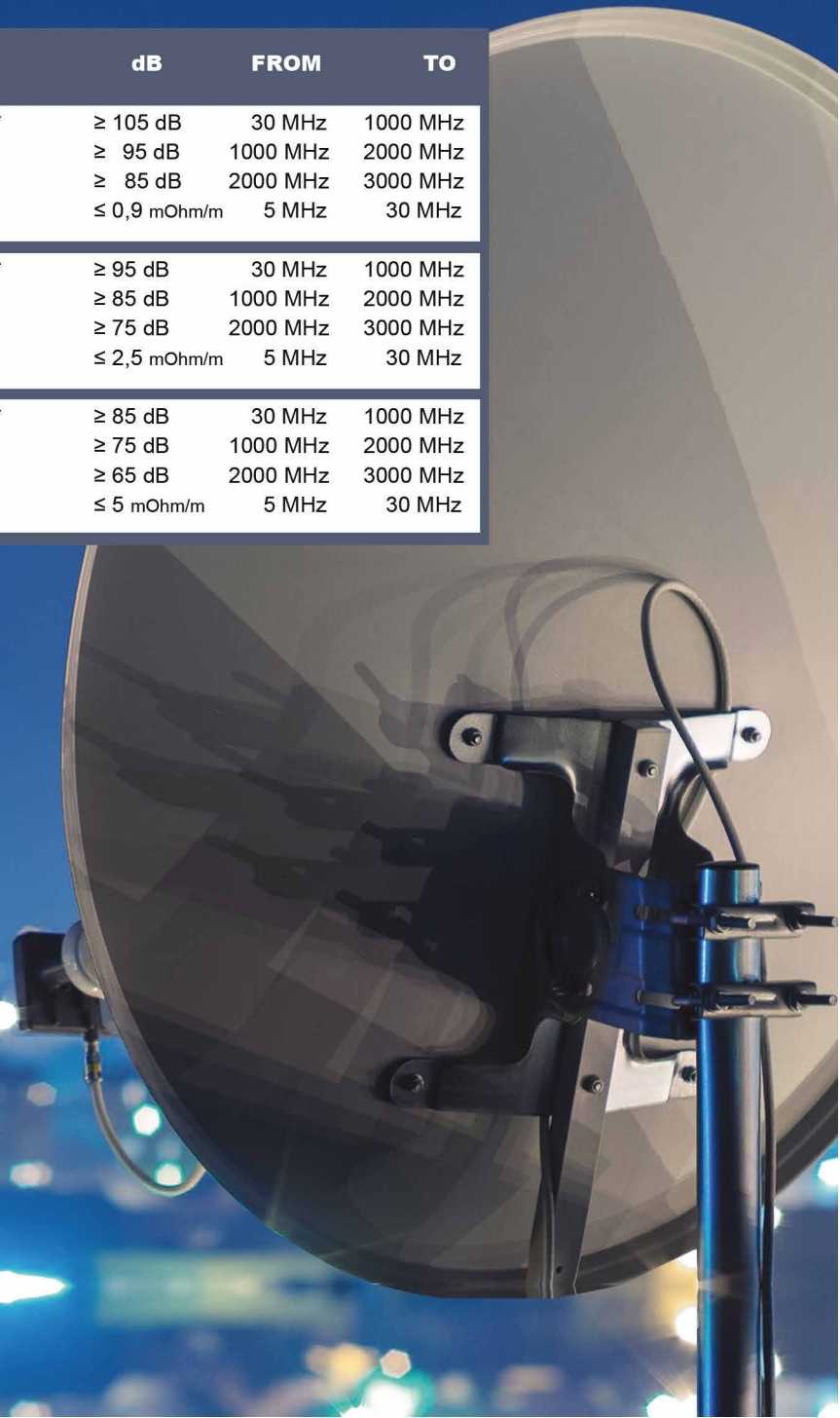
for Terrestrial and Satellite signals

LTE / 4G PROOF

All class "A" and "A++" cables grant the best shield for telecommunication interferences produced by mobile telephony providers.

SHIELDING CLASSES		dB	FROM	TO
Class A++ (LTE proof)	Shielding Efficiency*	≥ 105 dB	30 MHz	1000 MHz
		≥ 95 dB	1000 MHz	2000 MHz
		≥ 85 dB	2000 MHz	3000 MHz
	Transfer impedance	≤ 0,9 mOhm/m	5 MHz	30 MHz
Class A+ (LTE proof)	Shielding Efficiency*	≥ 95 dB	30 MHz	1000 MHz
		≥ 85 dB	1000 MHz	2000 MHz
		≥ 75 dB	2000 MHz	3000 MHz
	Transfer impedance	≤ 2,5 mOhm/m	5 MHz	30 MHz
Class A (LTE proof)	Shielding Efficiency*	≥ 85 dB	30 MHz	1000 MHz
		≥ 75 dB	1000 MHz	2000 MHz
		≥ 65 dB	2000 MHz	3000 MHz
	Transfer impedance	≤ 5 mOhm/m	5 MHz	30 MHz







* after completing the bending test as EN50289-3-9 par. 8.3.2 procedure..



Class A+ and A++ coaxial cables with LSZH sheath for SAT and DVB-T - Eca


Distribution and reception of "digital signals" for installations in public places: schools, hotels, hospitals, banks, theatres, public offices, airports, underground.


Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.


Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
0,8 / 3,5 LSZH - Thermoplastic LSZH White - Insulation C-4 (U0=400V)										
SAL59BZ 	On request	3,4	CW 0,81mm	PEGJ 3,5	AL3/3 100% CuSn 75% 19 Ohm/Km	5,0	75 ± 3	83%	50	5,8
			84 Ohm/km						230	12,0
	RL (dB)		Standards		Screening Efficiency > 95 db		Connectors		470	17,6
	5-470 MHz > 32	EN 50117	Capacity 53 ± 2 pF/m		AC-EA		1350	30,3	860	24,4
									1000	26,4
									1750	34,8
									2000	37,6
									2150	38,9
									2400	41,1
									3000	45,9
SAT 300 LSZH - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
SAL-3GZ 	M100 EX300 B500 B1000	4,5	CU 1,13mm	PEGJ 4,8	AL3/3 100% CuSn 60% 20 Ohm/Km	6,7	75 ± 2	85%	50	4,1
			18 Ohm/km						230	8,6
	RL (dB)		Standards		Screening Efficiency > 100 db		Connectors		470	12,6
	5-470 MHz > 36	EN 50117	Capacity 52 ± 2 pF/m		AC-SI		1350	22,3	860	17,6
									1000	19,2
									1750	25,8
									2000	27,5
									2150	28,6
									2400	30,4
									3000	33,9
Coax 1,13 / 4,8 SAT DIGITAL - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
SA756VZ 	On request	6,1	CU 1,13mm	PEGJ 4,8	AL3/3 100% CuSn 90% 8 Ohm/Km	6,9	75 ± 2	84%	50	3,7
			18 Ohm/km						230	8,2
	RL (dB)		Standards		Screening Efficiency > 110 db		Connectors		470	12,1
	5-470 MHz > 36	EN 50117	Capacity 53 ± 2 pF/m		AC-SI		1350	21,8	860	17,0
									1000	18,4
									1750	25,0
									2000	27,3
									2150	28,1
									2400	30,0
									3000	33,5

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.



LEGEND:  EN 50575 reaction to fire class
















 Class A+ coax

 Class A++ coax

Class A+ and A++ coaxial cables with PVC sheath for SAT and DVB-T - Eca

Distribution and reception of SAT and TV "digital signals" and where this signal is weak or polluted by radio-frequency interference.

Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.











Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m	
CCS 36 DIGITAL - PVC White - Insulation C-4 (U0=400V)											
SA-36BI 	M100	1,5	CW 0,41mm	PEGJ	AL2 100%	3,6	75 ± 5	85%	50	11,4	
	B500									230	22,4
	B1000		320 Ohm/km	1,9 ± 0,05	CuSn 75% 26 Ohm/Km				470	32,9	
		RL (dB)		Standards	Screening Efficiency > 95 db			Connectors	1350	58,7	
		5-470 MHz > 30		EN 50117	Capacity 55 ± 3 pF/m			AV122	1750	63,5	
		470-1000 MHz > 28		IEC 332-1-2					2000	69,3	
		1000-2000 MHz > 26		CEI UNEL 36762					2150	70,9	
		2000-3000 MHz > 24							2400	75,8	
									3000	84,7	
EXTRA 65 DIGITAL (Also 5 colors in a box) - PVC White, Red, Green, Blue, Yellow - Insulation C-4 (U0=400V)											
SAD65BI 	M100	2,8	CU 0,65mm	PEGJ	AL3 100%	4,5	75 ± 3	83%	50	7,2	
	MB300									230	15,4
	B500		53 Ohm/km	2,9	CuSn 85% 15 Ohm/Km				470	22,1	
		RL (dB)		Standards	Screening Efficiency > 105 db			Connectors	1350	35,5	
		5-470 MHz > 32		EN 50117	Capacity 53 ± 2 pF/m			AC-EA	1750	42,7	
		470-1000 MHz > 30		IEC 332-1-2					2000	45,6	
		1000-2000 MHz > 28		CEI UNEL 36762					2150	47,2	
		2000-3000 MHz > 26							2400	49,5	
									3000	55,3	
EXTRA 80 DIGITAL - PVC White - Insulation C-4 (U0=400V)											
SAD80BI 	M100	3,4	CU 0,80mm	PEGJ	AL3 100%	5,0	75 ± 3	83%	50	5,8	
	MB300									230	12,0
			35 Ohm/km	3,5	CuSn 80% 16 Ohm/Km				470	17,6	
		RL (dB)		Standards	Screening Efficiency > 96 db			Connectors	1350	30,3	
		5-470 MHz > 32		EN 50117	Capacity 53 ± 2 pF/m			AC-EA	1750	34,6	
		470-1000 MHz > 30		IEC 332-1-2					2000	37,6	
		1000-2000 MHz > 28		CEI UNEL 36762					2150	38,6	
		2000-3000 MHz > 26							2400	40,6	
									3000	45,4	
CCS 59 DIGITAL (Also 5 colors in a box) - PVC White, Red, Green, Blue, Yellow - Insulation C-4 (U0=400V)											
SA59DBI 	M100	3,4	CW 0,81mm	PEGJ	AL3/3 100%	5,0	75 ± 3	83%	50	5,7	
	MB300									230	12,0
	B500		84 Ohm/km	3,5	CuSn 75% 16 Ohm/Km				470	17,4	
		RL (dB)		Standards	Screening Efficiency > 96 db			Connectors	1350	30,1	
		5-470 MHz > 32		EN 50117	Capacity 53 ± 2 pF/m			AC-EA	1750	34,5	
		470-1000 MHz > 30		IEC 332-1-2					2000	37,4	
		1000-2000 MHz > 28		CEI UNEL 36762					2150	38,8	
		2000-3000 MHz > 26							2400	40,5	
									3000	45,3	
EXTRA 100 DIGITAL - PVC White - Insulation C-4 (U0=400V)											
SAD10BI 	Su richiesta	3,6	CU 1,02mm	PEGJ	AL3 100%	6,0	75 ± 2	85%	50	4,6	
										230	9,6
			22 Ohm/km	4,4	CuSn 55% 18 Ohm/Km				470	14,0	
		RL (dB)		Standards	Screening Efficiency > 95 db			Connectors	1350	21,0	
		5-470 MHz > 36		EN 50117	Capacity 52 ± 2 pF/m			AC-OI	1750	27,9	
		470-1000 MHz > 34		IEC 332-1-2					2000	30,2	
		1000-2000 MHz > 30		CEI UNEL 36762					2150	31,2	
		2000-3000 MHz > 28							2400	33,0	
									3000	36,9	

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Class A+ and A++ coaxial cables with PVC sheath for SAT and DVB-T - Eca


Distribution and reception of SAT and TV "digital signals" and where this signal is weak or polluted by radio-frequency interference.

Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
TRISHIELD GJ - PVC White - Insulation C-4 (U0=400V)										
SATRIBI°	M100	4,7	CU 1,02mm	PEGJ 4,6	AL2 100% CuSn 60%	6,7	75 ± 2	85%	50	4,6
				22 Ohm/km	AL2 100% 22 Ohm/Km					1350 24,2
			Standards		Screening Efficiency > 120 db		Connectors		230 9,6	
	RL (dB)		EN 50117		Capacity 52 ± 2 pF/m		AC-OI		470 14,0	
	5-470 MHz > 36		IEC 332-1-2				AV124		860 19,6	
	470-1000 MHz > 34		CEI UNEL 36762						1000 21,0	
										1350 24,2
										1750 27,9
										2000 30,2
										2150 31,2
										2400 33,0
										3000 36,9
COX 1,13 / 4,8 DIGITAL SAT - PVC White - Insulation C-4 (U0=400V)										
SADALBI°	On request	4	CU 1,13mm	PEGJ 4,8	AL3/3 100% Almelec 60%	6,7	75 ± 2	85%	50	4,1
				18 Ohm/km	20 Ohm/Km					1350 22,4
			Standards		Screening Efficiency > 95 db		Connectors		230 8,6	
	RL (dB)		EN 50117		Capacity 52 ± 2 pF/m		AC-SI		470 12,6	
	5-470 MHz > 36		IEC 332-1-2				AV125		860 17,6	
	470-1000 MHz > 34		CEI UNEL 36762						1000 19,2	
										1350 22,4
										1750 26,0
										2000 27,8
										2150 28,7
										2400 30,5
										3000 34,1
SAT 300 DIGITAL (Also 5 colors in a box) - PVC White, Red, Green, Blue, Yellow - Insulation C-4 (U0=400V)										
SAD30BI	M100	4,4	CU 1,13mm	PEGJ 4,8	AL3 100% CuSn 60%	6,7	75 ± 2	85%	50	4,1
	MB250			18 Ohm/km	16 Ohm/Km					1350 22,3
			Standards		Screening Efficiency > 95 db		Connectors		230 8,6	
	RL (dB)		EN 50117		Capacity 52 ± 2 pF/m		AC-SI		470 12,6	
	5-470 MHz > 36		IEC 332-1-2				AV125		860 17,6	
	470-1000 MHz > 34		CEI UNEL 36762						1000 19,2	
										1350 22,3
										1750 25,8
										2000 27,5
										2150 28,6
										2400 30,4
										3000 34,0
DIGITAL SAT SUPER (Also 5 colors in a box) - PVC White, Red, Green, Blue, Yellow - Insulation C-4 (U0=400V)										
SADDSBI	M100	5	CU 1,13mm	PEGJ 4,8	AL3/3 100% CuSn 80%	6,8	75 ± 2	85%	50	3,8
	MB250			18 Ohm/km	10 Ohm/Km					1350 21,7
			Standards		Screening Efficiency > 105 db		Connectors		230 8,3	
	RL (dB)		EN 50117		Capacity 52 ± 2 pF/m		AC-SI		470 12,3	
	5-470 MHz > 36		IEC 332-1-2				AV125		860 17,1	
	470-1000 MHz > 34		CEI UNEL 36762						1000 18,5	
										1350 21,7
										1750 25,1
										2000 27,3
										2150 28,2
										2400 30,2
										3000 33,8
75 Ohm SAT DIGITAL - PVC White - Insulation C-4 (U0=400V)										
SA-75BI	M100	5,7	CU 1,13mm	PEGJ 4,8	AL3/3 100% CuSn 90%	6,9	75 ± 2	85%	50	3,7
	MB250			18 Ohm/km	8 Ohm/Km					1350 21,8
			Standards		Screening Efficiency > 110 db		Connectors		230 8,2	
	RL (dB)		EN 50117		Capacity 52 ± 2 pF/m		AC-SI		470 12,1	
	5-470 MHz > 36		IEC 332-1-2				AV125		860 17,0	
	470-1000 MHz > 34		CEI UNEL 36762						1000 18,4	
										1350 21,8
										1750 25,0
										2000 27,3
										2150 28,1
										2400 30,0
										3000 33,5

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.



LEGEND:  EN 50575 reaction to fire class



Class A++ coax



Class A+ coax

Class A+ and A++ coaxial cables with PVC sheath for SAT and DVB-T - Fca

Distribution and reception of "analog signals" coming from satellite transmissions. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
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Coax 0,65 / 2,9 EXTRA 65 DIGITAL - White flame retardant PVC - Insulation C-4 (U0=400V)

SAG5DBI 	On request	2,8	CU 0,65mm 53 Ohm/km	PEGJ 2,9	AL3 100% CuSn 85% 20 Ohm/Km	4,5	75 ± 2	83%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	7,2 15,4 22,1 29,6 32,3 35,5 42,7 45,6 47,2 49,5 55,3
	RL (dB) 5-470 MHz > 32 470-1000 MHz > 30 1000-2000 MHz > 28 2000-3000 MHz > 26		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 105 db Capacity 53 ± 2 pF/m		Connectors AC-OI AV124			

F_{ca}




1,02/4,6 TRISHIELD AL - PVC White - Insulation C4-(U0=400V)

SAMTABI 	On request	4,5	CU 1,02mm 22 Ohm/km	PEGJ 4,6	AL2 COP 100% AL 50% AL2 100% 30 Ohm/Km	6,7	75 ± 2	85%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	4,6 9,6 14,0 19,6 21,0 24,2 27,9 30,2 31,2 33,0 36,9
	RL (dB) 5-470 MHz > 36 470-1000 MHz > 34 1000-2000 MHz > 30 2000-3000 MHz > 28		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 110 db Capacity 52 ± 2 pF/m		Connectors AC-OI AV124			

F_{ca}



QUADRISHIELD GJ - PVC White - Insulation C-4 (U0=400V)

SAMQRBI 	On request	5,2	CU 1,02mm 22 Ohm/km	PEGJ 4,6	AL2 100% CuSn 60% AL2 100% CuSn 60% 14 Ohm/Km	7,1	75 ± 2	85%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	4,6 9,6 14,0 19,6 21,0 24,2 27,9 30,2 31,2 33,0 36,9
	RL (dB) 5-470 MHz > 36 470-1000 MHz > 34 1000-2000 MHz > 30 2000-3000 MHz > 28		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 120 db Capacity 52 ± 2 pF/m		Connectors AC-OI AV124			

F_{ca}




SAPAD DIGITAL - PE Nero UV res. - Insulation C-4 (U0=400V)

SAPADPN 	On request	9	CU 1,63mm 8,6 Ohm/km	PEGJ 7,2	AL3/3 100% CuSn 70% 8,5 Ohm/Km	9,8	75 ± 2	84%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	2,8 6,1 8,8 12,3 13,6 16,5 17,8 19,1 19,8 21,0 23,5
	RL (dB) 5-470 MHz > 34 470-1000 MHz > 32 1000-2000 MHz > 30 2000-3000 MHz > 28		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 95 db Capacity 53 ± 2 pF/m		Connectors AC-OI AV124			

F_{ca}




2 x EXTRA 80 DIGITAL - White flame retardant PVC - Insulation C-4 (U0=400V)

SA80XBA° 	On request	7,2	CU 0,80mm 35 Ohm/km	PEGJ 3,5	AL3 100% CuSn 75% 16 Ohm/Km	12,5x5,1	75 ± 2	83%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	5,8 12,0 17,6 24,4 26,3 30,3 34,6 37,6 38,6 40,6 45,4
	RL (dB) 5-470 MHz > 32 470-1000 MHz > 30 1000-2000 MHz > 28 2000-3000 MHz > 26		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 95 db Capacity 53 ± 2 pF/m		Connectors AC-EA AV121			

F_{ca}



4 x CCS 59 - Int. Jacket PVC Red, Green, Blue, Yellow - Ext. PVC Gray - Insulation C-4 (U0=400V)

SA594GR 	On request	15,8	CW 0,81mm 84 Ohm/km	PEGJ 3,5	AL3 100% CuSn 60% 19 Ohm/Km	13,5	75 ± 3	83%	50 230 470 860 1000 1350 1750 2000 2150 2400 3000	5,8 12,0 17,6 24,4 26,4 30,3 34,8 37,6 38,9 40,8 45,6
	RL (dB) 5-470 MHz > 32 470-1000 MHz > 30 1000-2000 MHz > 28 2000-3000 MHz > 26		Standards EN 50117 IEC 332-1-2 CEI UNEL 36762		Screening Efficiency > 95 db Capacity 53 ± 2 pF/m		Connectors AC-EA AV121			











E_{cca}



REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Coaxial cables for SAT and DVB-T - Eca









Distribution and reception of "analog signals" coming from satellite transmissions. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
EXTRA 65 - PVC White - Insulation C-4 (U0=400V)										
SAE65BI 	Su richiesta	2,6	CU 0,65mm	PEGJ 2,95	AL3 100% CuSn 55% 33 Ohm/Km	4,3	75 ± 3	83%	50	7,2
			53 Ohm/km						230	15,4
	E_{ca}	RL (dB)		Standards		Screening Efficiency > 85 db				
		5-470 MHz > 32	470-1000 MHz > 30	EN 50117	IEC 332-1-2	CEI UNEL 36762	Capacity 53 ± 2 pF/m	1000	29,6	1350
									1750	42,7
									2000	45,6
									2150	47,2
									2400	49,5
									3000	55,3
EXTRA 80 - PVC White - Insulation C-4 (U0=400V)										
SAE80BI 	M100 MB300 B500	3,2	CU 0,80mm	PEGJ 3,5	AL3 100% CuSn 58% 24 Ohm/Km	5,0	75 ± 3	83%	50	5,8
			35 Ohm/km						230	12,1
	E_{ca}	RL (dB)		Standards		Screening Efficiency > 85 db		Connectors		
		5-470 MHz > 32	470-1000 MHz > 30	EN 50117	IEC 332-1-2	CEI UNEL 36762	Capacity 53 ± 2 pF/m	1000	26,5	1350
									1750	34,6
									2000	37,8
									2150	38,8
									2400	40,8
									3000	45,6
SAD39 Classe A - PVC White, disponibile anche nei colori Red, Green, Blue, Yellow, Black - Insulation C-4 (U0=400V)										
SAD39BI 	M100 B500	2,9	CU 0,80mm	PEGJ 3,5	AL3 100% CuSn 50% 34 Ohm/Km	5,0	75 ± 3	83%	50	6,0
			35,6 Ohm/km						230	12,9
	E_{ca}	RL (dB)		Standards		Screening Efficiency > 85 db		Connectors		
		5-470 MHz > 32	470-1000 MHz > 30	EN 50117	IEC 332-1-2	CEI UNEL 36762	Capacity 53 ± 2 pF/m	1000	26,8	1350
									1750	35,5
									2000	37,9
									2150	39,3
									2400	41,5
									3000	46,4
SAA39 0,8/3,5 ALL - PVC White - Insulation C-4 (U0=400V)										
SAA39BI 	M100 MB300 B500	3,0	CU 0,80mm	PEGJ 3,5	AL/Pet 100% Almelec 35% 50 Ohm/Km	5,1	75 ± 3	83%	50	5,9
			35 Ohm/km						230	12,3
	E_{ca}	RL (dB)		Standards		Screening Efficiency > 75 db		Connectors		
		5-470 MHz > 32	470-1000 MHz > 30	EN 50117	IEC 332-1-2	CEI UNEL 36762	Capacity 53 ± 3 pF/m	1000	26,8	1350
									1750	35,0
									2000	38,3
									2150	39,5
									2400	41,8
									3000	46,7
CCS 59 (Also 5 colors in a box) - PVC White, Red, Green, Blue, Yellow - Insulation C-4 (U0=400V)										
SA-59BI 	M100 M200 MB300 B500	3,2	CW 0,81mm	PEGJ 3,5	AL3 100% CuSn 55% 19 Ohm/Km	5,0	75 ± 3	83%	50	5,8
			84 Ohm/km						230	12,0
	E_{ca}	RL (dB)		Standards		Screening Efficiency > 85 db		Connectors		
		5-470 MHz > 32	470-1000 MHz > 30	EN 50117	IEC 332-1-2	CEI UNEL 36762	Capacity 53 ± 2 pF/m	1000	26,4	1350
									1750	34,8
									2000	37,6
									2150	38,9
									2400	40,8
									3000	45,6

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Coaxial cables for SAT and DVB-T - Eca




Distribution and reception of "analog signals" coming from satellite transmissions. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
AMEL 100 - PVC White - Insulation C-4 (U0=400V)										
SAAM1BI 	Su richiesta	3,2	CU 1,02mm	PEGJ 4,4	AL3 100% Almelec 40% 37 Ohm/Km	6,2	75 ± 2	85%	50	4,6
				22 Ohm/km						230
	RL (dB)		Standards		Screening Efficiency > 75 db			Connectors	1350	24,9
	5-470 MHz > 36		EN 50117		Capacity 52 ± 2 pF/m			AC-OI	1750	28,6
		470-1000 MHz > 34	IEC 332-1-2						2000	31,0
		1000-2000 MHz > 30	CEI UNEL 36762						2150	32,0
		2000-3000 MHz > 28							2400	33,8
									3000	37,8
SAD29 Classe A - PVC White - Insulation C-4 (U0=400V)										
SAD29BI 	M100 B300	4	CU 1,13mm	PEGJ 4,8	AL3 100% CuSn 40% 35 Ohm/Km	6,6	75 ± 2	85%	50	4,1
				18 Ohm/km						230
	RL (dB)		Standards		Screening Efficiency > 85 db			Connectors	1350	22,4
	5-470 MHz > 36		EN 50117		Capacity 52 ± 2 pF/m			AC-SI	1750	26,0
		470-1000 MHz > 34	IEC 332-1-2					AV125	2000	27,8
		1000-2000 MHz > 30	CEI UNEL 36762						2150	28,7
		2000-3000 MHz > 28							2400	30,5
									3000	34,1
SAT 300 - PVC White - Insulation C-4 (U0=400V)										
SA300BI 	M100 MB250 B300 B1000	4,1	CU 1,13mm	PEGJ 4,8	AL3 100% CuSn 50% 20 Ohm/Km	6,7	75 ± 2	85%	50	4,1
				18 Ohm/km						230
	RL (dB)		Standards		Screening Efficiency > 90 db			Connectors	1350	22,4
	5-470 MHz > 36		EN 50117		Capacity 52 ± 2 pF/m			AC-SI	1750	26,0
		470-1000 MHz > 34	IEC 332-1-2					AV125	2000	27,8
		1000-2000 MHz > 30	CEI UNEL 36762						2150	28,7
		2000-3000 MHz > 28							2400	30,5
									3000	34,1
SAA29 1,13/4,8 ALL - PVC White - Insulation C-4 (U0=400V)										
SAA29BI 	M100 EX300	3,6	CU 1,13mm	PEGJ 4,8	AL3 100% Almelec 40% 30 Ohm/Km	6,6	75 ± 3	84%	50	4,1
				18 Ohm/km						230
	RL (dB)		Standards		Screening Efficiency > 80 db			Connectors	1350	22,4
	5-470 MHz > 36		EN 50117		Capacity 52 ± 3 pF/m			AC-SI	1750	26,0
		470-1000 MHz > 34	IEC 332-1-2					AV125	2000	27,8
		1000-2000 MHz > 30	CEI UNEL 36762						2150	28,7
		2000-3000 MHz > 28							2400	30,5
									3000	34,1

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

SAT and DVB-T coax cables - Double Jacket for outdoor/direct burial applications

Distribution and reception of TV signals. Double-Sheathed cables are particularly suitable for being laid in damp environments, whereas Blindo (armoured) cables are for underground use. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m	
EXTRA 80 DIGITAL Double Jackets - Int. Jacket PVC White - Ext. PE Black UV resistant - Insulation C-4 (U0=400V)											
SA8DDPN 	Su richiesta	4,5	CU 0,80mm	PEGJ	AL3 100%	6,7	75 ± 3	83%	50	5,8	
			35 Ohm/km	3,5	CuSn 75%				16 Ohm/Km	230	12,0
F_{ca}	RL (dB)		Standards		Screening Efficiency > 95 db		Connectors		470	17,6	
	5-470 MHz	> 32	EN 50117	IEC 332-1-2	Capacity 53 ± 2 pF/m	AC-EA	1750	34,6	860	24,4	
			CEI UNEL 36762				AV121	2000	37,6	1000	26,3
								2150	38,6	1350	30,3
								2400	40,6	1750	34,6
								3000	45,4	2000	37,6
										2150	38,6
										2400	40,6
										3000	45,4
SAT 300 Double Jackets - Int. Jacket PVC White - Ext. PE Black UV resistant - Insulation C-4 (U0=400V)											
SA30DPN 	M100 B250 B500 B1000	6	CU 1,13mm	PEGJ	AL3 100%	7,9	75 ± 2	85%	50	3,7	
			18 Ohm/km	4,8	CuSn 50%				20 Ohm/Km	230	8,2
F_{ca}	RL (dB)		Standards		Screening Efficiency > 90 db		Connectors		470	12,1	
	5-470 MHz	> 36	EN 50117	IEC 332-1-2	Capacity 52 ± 2 pF/m	AC-SI	1750	25,0	860	17,0	
			CEI UNEL 36762				AV125	2000	27,3	1000	18,4
								2150	28,1	1350	21,5
								2400	30,0	1750	34,6
								3000	33,5	2000	37,6
										2150	38,6
										2400	40,6
										3000	45,4
75 Ohm SAT DIGITAL Double Jackets - Int. Jacket PVC White - Ext. PE Black - Insulation C-4 (U0=400V)											
SA75DPN 	M100 B500 B1000	7,3	CU 1,13mm	PEGJ	AL3/3 100%	8,4	75 ± 2	85%	50	3,9	
			18 Ohm/km	4,8	CuSn 90%				8 Ohm/Km	230	8,4
F_{ca}	RL (dB)		Standards		Screening Efficiency > 105 db		Connectors		470	12,3	
	5-470 MHz	> 36	EN 50117	IEC 332-1-2	Capacity 52 ± 2 pF/m	AC-SI	1750	25,1	860	17,2	
			CEI UNEL 36762				AV125	2000	27,3	1000	18,5
								2150	28,2	1350	21,7
								2400	30,0	1750	34,6
								3000	46,0	2000	37,6
										2150	38,6
										2400	40,6
										3000	45,4

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

















RG Cables

Distribution of analog signals for
video and radio frequency applications



Cables for Video Broadcast and HDTV systems

Broadcast and HDTV solutions for TV Stations, Outside Broadcast Vans, Production Companies, Recording Studios and Post Production.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
Coax 0,6 / 2,8 HDTV - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
SAGSSVZ* 	On request	3	CU 0,60mm 60 Ohm/km	PEGJ 2,75	AL3 100% CuSn 92% 14 Ohm/Km	4,5	75 ± 2	82%	1 5 10 100 135 200 270 500 1000	1,1 2,6 3,7 10,2 12,1 14,5 16,9 23,4 34,4
	RL (dB)		Standards	Screening Efficiency > 105 db Capacity 54 ± 2 pF/m		Connectors AV123				
 	5-470 MHz > 32		EN 50117							
470-1000 MHz > 30		IEC 332-1-2								
1000-2000 MHz > 28		IEC 754-1								
2000-3000 MHz > 26		IEC 754-2 CEI UNEL 36762								
Coax 0,8/3,7 HDTV - LSZH - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
SABSSVZ* 	On request	4,7	CU 0,80mm 35 Ohm/km	PEGJ 3,65 ± 0,05	AL3 100% CuSn 95% 11 Ohm/Km	6,0	75 ± 2	83%	1 5 10 100 135 200 270 500 1000	0,8 2,2 2,9 8,5 9,9 11,3 13,7 18,8 27,5
	RL (dB)		Standards	Screening Efficiency > 105 db Capacity 54 ± 2 pF/m		Connectors AV123				
 	5-470 MHz > 32		EN 50117							
470-1000 MHz > 30		IEC 332-1-2								
1000-2000 MHz > 28		IEC 754-1								
2000-3000 MHz > 26		IEC 754-2 CEI UNEL 36762								
Coax 1,02 / 4,70 HDTV - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
SALD1VZ 	On request	5,3	CU 1,02mm 22 Ohm/km	PEGJ 4,7	AL3 100% CuSn 95% 8,2 Ohm/Km	6,9	75 ± 2	84%	1 5 10 100 135 200 270 500 1000 3000	0,8 1,5 2,1 6,2 7,3 9,0 10,2 14,3 21,3 36,8
	RL (dB)		Standards	Screening Efficiency > 105 db Capacity 53 ± 2 pF/m		Connectors AV123				
 	5-470 MHz > 36		EN 50117							
470-1000 MHz > 34		IEC 332-1-2								
1000-2000 MHz > 30		IEC 754-1								
2000-3000 MHz > 28		IEC 754-2 CEI UNEL 36762								
Coax 1,2L / 4,9 Flex HDTV PVC - PVC flame retardant Black - Insulation C-4 (U0=400V)										
HD74FNM* 	On request	6,8	CU 7x0,4mm 19 Ohm/km	PEGJ 4,9	CuSn 95% Cusn 90% 5,0 Ohm/Km	7,1	75 ± 2	85%	1 5 10 100 135 200 270 500 1000	0,7 1,6 2,2 7,0 8,2 10,0 11,7 15,6 22,8
	RL (dB)		Standards	Screening Efficiency > 92 db Capacity 53 ± 2 pF/m		Connectors AV123				
 	5-470 MHz > 34		EN 50117							
470-1000 MHz > 32		CEI 46-1								
1000-2000 MHz > 30		IEC 60332-1								
2000-3000 MHz > 28										
TRIAX 8 Flex - Int. Jacket PU Neutral - Ext. PVC flame retardant Red										
TRI8FRE* 	On request	10	CUAg 7x0,35mm 23 Ohm/km	PEGJ 4,6	CUAg 90% CU 90% 7 Ohm/Km	8,5	75 ± 2	84%	1 5 10 20 40 50 100 300	0,6 1,4 2,2 3,1 4,5 5,0 7,4 13,5
	RL (dB)		Standards	Screening Efficiency > 75 db Capacity 53 ± 2 pF/m		Connectors AV123				
	100-300MHz > 35		IEC 60332-1-2							
300-1000MHz > 30										
TRIAX 8 PVC - Int. Jacket PE Neutral - Ext. PVC flame retardant Red										
TRI-8RE* 	On request	9,5	CUAg 1mm 23 Ohm/km	PEGJ 4,5	CUAg 90% CU 90% 7 Ohm/Km	8,5	75 ± 2	84%	1 2 5 10 20 40 50 100 300	0,6 0,9 1,4 2,0 2,9 4,2 4,7 6,7 12,0
	RL (dB)		Standards	Screening Efficiency > 75 db Capacity 53 ± 2 pF/m		Connectors AV123				
	100-300MHz > 35		IEC 60332-1-2							
300-1000MHz > 30										


REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Cables for Video Broadcast and HDTV systems

Broadcast and HDTV solutions for TV Stations, Outside Broadcast Vans, Production Companies, Recording Studios and Post Production.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
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Coax 1,63 / 7,20 HDTV - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)


SA63SVZ° 	On request	12,8	Cu 1,63mm	PEGJ 7,2	AL3/3 100% CuSn 95% 5,0 Ohm/Km	10,2	75 ± 2	84%	1	0,4
			8,6 Ohm/km						5	1,0
									10	1,4
									100	4,0
									135	4,6
									200	5,8
									270	7,0
									500	9,5
									1000	13,8
									2000	19,1
									2250	20,8
									2500	21,2

RL (dB)
5-470 MHz > 34
470-1000 MHz > 32
1000-2000 MHz > 30
2000-3000 MHz > 28

Standards
EN 50117
IEC 332-1-2
IEC 754-1
IEC 754-2
CEI UNEL 36762

Screening Efficiency > 105 db
Capacity 53 ± 2 pF/m

TRIAx 11 Flex - Int. Jacket PU Neutral - Ext. PVC AF Red


TRI-FRE° 	On request	16	CuAg 19x0,28mm	PEGJ 6,0	CuAg 90% CU 85% 7 Ohm/Km	11	75 ± 2	82%	1	0,5
			12 Ohm/km						5	1,2
									10	1,6
									20	2,3
									40	3,3
									50	3,6
									100	5,3
									300	10,1

RL (dB)
100-300MHz > 35
300-1000MHz > 30

Standards
IEC 60332-1-2

Screening Efficiency > 75 db
Capacity 54 ± 2 pF/m

Coax 3 x 0,6 / 2,8 HDTV - Int. Jacket LSZH Red, Green, Blue - Ext. Thermoplastic LSZH Black - Insulation C-4 (U0=400V)


SA6H3NZ° 	On request	16	Cu 0,60mm	PEGJ 2,75	AL3 100% CuSn 92% 14 Ohm/Km	11,9	75 ± 2	82%	1	1,1
			60 Ohm/km						5	2,6
									10	3,7
									100	10,2
									135	12,1
									200	14,5
									270	16,9
									500	23,4
									1000	34,4

RL (dB)
5-470 MHz > 32
470-1000 MHz > 30
1000-2000 MHz > 28
2000-3000 MHz > 26

Standards
EN 50117
IEC 332-1-2
IEC 754-1
IEC 754-2
CEI UNEL 36762

Screening Efficiency > 105 db
Capacity 54 ± 2 pF/m

TRIAx11 - Int. Jacket PE Neutral - Ext. PVC flame retardant Red


TRIAxRE° 	On request	16	CuAg 1,4mm	PEGJ 6,4	CuAg 90% CU 85% 7 Ohm/Km	11	75 ± 2	82%	5	0,4
			12 Ohm/km						10	1,5
									20	2,1
									40	3,1
									50	3,5
									100	5,1
									300	9,7

RL (dB)
100-300MHz > 35
300-1000MHz > 30

Standards
IEC 60332-1-2

Screening Efficiency > 75 db
Capacity 54 ± 2 pF/m

TRIAx 14 - Int. Jacket PE Neutral - Ext. PE Red


TRI14PR° 	On request	22	CuAg 7x0,75 mm	PEGJ 9,7 +/- 0,1	CuAg 90% CU 80% 4 and 4 Ohm/Km	14,4	75 ± 3	82%	1	0,3
			5,5 Ohm/km						2	0,5
									5	0,8
									10	1,2
									20	1,7
									40	2,5
									50	2,8
									60	3,1
									100	4,1
									300	7,5

RL (dB)
100-300MHz > 35
300-1000MHz > 30

Standards
IEC 60332-1-2

Screening Efficiency > 75 db
Capacity 54 ± 2 pF/m

Coax 5 x 0,6 / 2,8 HDTV - Int. Jacket flame retardant PVC, Red, Green, Blue, Black, White - Ext. Black flame retardant PVC - Insulation C-4

SA6S5NN° 	On request	26	Cu 0,60mm	PEGJ 2,75	AL3 100% CuSn 92% 14 Ohm/Km	15,3	75 ± 2	82%	1	1,1
			60 Ohm/km						5	2,6
									10	3,7
									100	10,2
									135	12,1
									200	14,5
									270	16,9
									500	23,4
									1000	34,4

RL (dB)
5-470 MHz > 32
470-1000 MHz > 30
1000-2000 MHz > 28
2000-3000 MHz > 26

Standards
EN 50117
IEC60332-1-2
CEI UNEL 36762

Screening Efficiency > 95 db
Capacity 54 ± 2 pF/m

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.













Cavi RG

per la distribuzione di segnali video analogico e
radiofrequenza per antenne ricetrasmittenti



75 Ohm RG Cables






Distribution of analog signals for video and CCTV applications.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
RG 59 M-17/29 - PVC Black										
RG59BNE 	M100	5	CW 0,58mm	PE 3,7	CU 94% 14 Ohm/Km	6,15	75 ± 2	66%	50	7,7
	MB300		230						18,2	
	B350		160 Ohm/km						470	26,6
	B500								860	36,1
	B1000								1000	38,5
		RL (dB)		Standards	Screening Efficiency > 50 db		Connectors			
		100-300MHz > 35	MIL C-17	Capacity 67 ± 2 pF/m		ACBAB				
		300-900MHz > 30								
RG 59 B/U LSZH - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
RGL59GZ 	M100	6,2	CW 0,58mm	PE 3,7	CU 94% 9 Ohm/Km	6,2	75 ± 2	66%	50	7,7
	B500		230						18,2	
	B1000		160 Ohm/km						470	26,6
									860	36,1
									1000	38,5
		RL (dB)		Standards	Screening Efficiency > 55 db		Connectors			
		100-300MHz > 35	MIL C-17	Capacity 67 ± 2 pF/m		ACBAB				
		300-900MHz > 30	IEC 60332-1							
			IEC 60754-1/2							
			EN 61034-2							
			CEI-UNEL 36762							
RG 6 M-17/2 - PVC Black										
RG-6ANE 	M100	11,3	CW 0,72mm	PE 4,8	CuAg 95% CU 90% 4,4 Ohm/Km	8,4	75 ± 2	67%	50	6,3
	B1000		230						14,0	
			106 Ohm/km						470	21,0
									860	27,1
									1000	32,3
		RL (dB)		Standards	Screening Efficiency > 70 db		Capacity 66 ± 2 pF/m			
		100-300MHz > 35	MIL C-17							
		300-900MHz > 30								
RG 11 M-17/6 - PVC Black										
RG11ANE 	M100	12,7	CuSn	PE 7,2	CU 94% 4,2 Ohm/Km	10,3	75 ± 3	66%	50	5,2
	B500		230						11,5	
	B1000		7x0,4mm 20,5 Ohm/km						470	17,0
									860	20,5
									1000	25,6
		RL (dB)		Standards	Screening Efficiency > 60 db		Capacity 67 ± 2 pF/m			
		100-300MHz > 35	MIL C-17							
		300-900MHz > 30								

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

75 Ohm RG Cables
















Distribution of analog signals for video and CCTV applications.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
RG 59 Type - Int. Jacket PE neutro - Ext. PVC nero										
TW-59NE 	M100	3,8	CW 0,58mm	PE 3,7	CU 55% 28 Ohm/Km	5,9	75 ± 2	66%	50	8,1
	B350									230
	B500		160 Ohm/km						470	27,2
	B1000								860	37,0
									1000	39,3
	RL (dB)		Standards		Screening Efficiency > 45 db			Connectors		
	100-300MHz > 35		CEI 46-1		Capacity 67 ± 2 pF/m			ACBAB		
	300-900MHz > 30									
F_{ca}										
RG 59 B/U - PVC Black										
TY-59NE 	M100	5,2	CW 0,58mm	PE 3,7	CU 80% 14 Ohm/Km	6,2	75 ± 2	66%	50	7,9
	B350									
	B500		160 Ohm/km						470	26,8
	B1000								860	36,5
									1000	38,8
	RL (dB)		Standards		Screening Efficiency > 50 db			Connectors		
	100-300MHz > 35		MIL C-17 p.q.a.		Capacity 67 ± 2 pF/m			ACBAB		
	300-900MHz > 30		CEI 46-1							
F_{ca}										
RG 59 T - PVC Black										
TY59TNE 	M100	4,2	CW 0,58mm	PE 3,7	CU 65% 22 Ohm/Km	6,2	75 ± 2	66%	50	7,9
	B500									
	B1000		59 Ohm/km						470	26,8
									860	36,5
									1000	38,8
	RL (dB)		Standards		Screening Efficiency > 48 db			Connectors		
	100-300MHz > 35		CEI 46-1		Capacity 67 ± 2 pF/m			ACBAB		
	300-900MHz > 30									
F_{ca}										
RG 59 Double Jackets - Int. Jacket PVC Black - Ext. PE Black - Insulation C-4 (U0=400V)										
TY59DPN 	M100	6,3	CW 0,58mm	PE 3,7	CU 94% 9 Ohm/Km	7,6	75 ± 2	66%	50	7,9
	B500									
	B1000		160 Ohm/km						470	26,8
									860	36,5
									1000	38,8
	RL (dB)		Standards		Screening Efficiency > 55 db			Connectors		
	100-300MHz > 35		MIL C-17 p.q.a.		Capacity 67 ± 2 pF/m			ACBAB		
	300-900MHz > 30		CEI 46-1							
			CEI UNEL 36762							
F_{ca}										
										

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

50 Ohm RG Cables










Distribution of radio frequency signals and transceivers.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
RG 174 M-17/119 - PVC Black										
RG174NE 	M100	1,5	CW 7x0,16mm 260 Ohm/km	PE 1,5	CUST 94% 22 Ohm/Km	2,8	50 ± 3	66%	50	18,1
	B500								230	40,2
	B1000								470	55,4
									860	69,5
									1000	92,5
	RL (dB)		Standards		Screening Efficiency > 55 db		Capacity 100 ± 2 pF/m			
	100-300MHz > 30		MIL C-17							
	300-900MHz > 28									
										
RG 58 M-17/28 - PVC Black										
RG58CNE 	M100	3,7	CuSn 19x0,18mm 38 Ohm/km	PE 2,95	CuSn 92% 17 Ohm/Km	4,95±0,15	50 ± 2	66%	50	10,4
	B500								230	23,3
	B1000								470	36,5
									860	52,2
									1000	57,8
	RL (dB)		Standards		Screening Efficiency > 55 db		Connectors		Capacity 99 ± 2 pF/m	
	100-300MHz > 35		MIL C-17F				ACBAA			
	300-1000MHz > 30		IEC60332-1-2							
										
RG 58 ALL Low Loss - PVC Black - Insulation C-4 (U0=400V)										
TY58ANE 	Su richiesta	3,2	CuSn 19x0,2mm 28 Ohm/km	PEGJ 2,9	AL3 100% CuSn > 80% 18 Ohm/Km	5,0±0,15	50 ± 3	80%	50	8,2
									100	11,5
									230	16,3
									470	24,8
									860	38,2
									1000	42,9
	RL (dB)		Standards		Screening Efficiency > 80 db		Connectors		Capacity 82 ± 2 pF/m	
	50-470MHz > 33		IEC 60332-1-2				ACBAA			
	470-1000MHz > 30		CEI UNEL 36762							
	1000-2000MHz > 25									
	2000-3000MHz > 20									
										
RG 58 A/U - PVC Black										
TY-58NE 	M100	3,2	CuSn 19x0,18mm 38 Ohm/km	PE 2,95	CuSn 75% 22 Ohm/Km	5,0	50 ± 2	66%	50	11,0
	B500								230	24,1
	B1000								470	40,8
									860	54,3
									1000	59,1
	RL (dB)		Standards		Screening Efficiency > 45 db		Connectors		Capacity 98 ± 2 pF/m	
	100-300MHz > 35		CEI 46-1				ACBAA			
	300-900MHz > 30									
										
RG 58 C/U M-17/28 LSZH - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
RGL58GZ 	M100	3,8	CuSn 19x0,18mm 38 Ohm/km	PE 2,95	CuSn 92% 17 Ohm/Km	5,0	50 ± 2	66%	50	10,4
	B1000								230	23,3
									470	36,5
									860	52,2
									1000	57,8
	RL (dB)		Standards		Capacity 99 ± 2 pF/m		Connectors		ACBAA	
	100-300MHz > 35		MIL C-17							
	300-900MHz > 30		IEC 60332-1 IEC 60754-1/2 EN 61034-2 CEI-UNEL 36762							
										
RG 223 M-17/84 - PVC Black										
RG223NE 	M100	5,3	CuAg 0,90mm 28 Ohm/km	PE 2,95	CuAg 95% CuAg 94% 4,5 Ohm/Km	5,4	50 ± 2	66%	50	10,5
	B500								230	23,6
	B1000								470	33,8
									860	43,9
									1000	54,2
	RL (dB)		Standards		Screening Efficiency > 70 db		Capacity 97 ± 2 pF/m			
	100-300MHz > 35		MIL C-17							
	300-900MHz > 30									
										

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

50 Ohm RG Cables

Distribution of radio frequency signals and transceivers.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
RG 213 LSZH - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
RGL13GZ 	M100	15,0	CU 7x0,75mm 6,0 Ohm/km	PE 7,2	CU 94% 4,2 Ohm/Km	10,2	50 ± 2	66%	50	4,8
	B1000								230	10,2
									470	15,3
									860	22,3
									1000	24,5
	RL (dB)		Standards	Screening Efficiency > 55 db						
	100-300MHz > 35		MIL C-17	Capacity 98 ± 2 pF/m						
	300-900MHz > 30		IEC 60332-1-2							
			CEI-UNEL 36762							
 										
RG 213 M-17/74 - PVC Black										
RG213NE 	M100	15	CU 7x0,75mm 5,6 Ohm/km	PE 7,2	CU 94% 5,9 Ohm/Km	10,3	50 ± 2	66%	50	4,8
	B500								230	10,2
	B1000								470	15,3
									860	22,3
									1000	24,5
	RL (dB)		Standards	Screening Efficiency > 55 db						
	30-300MHz > 20		MIL C-17	Capacity 98 ± 2 pF/m						
	300-1000MHz > 18									
 										
RG 214/U M-17/214 - PVC Black - Insulation C-4 (U0=400V)										
RG214NE 	M100	19	CuAg 7x0,75mm 5,7 Ohm/km	PE 7,25	CuAg 95% CuAg 95% 4 Ohm/Km	10,8	50 ± 2	66%	50	4,3
	B500								230	9,6
	B1000								470	15,0
									860	21,2
									1000	24,0
	RL (dB)		Standards	Screening Efficiency > 75 db						
	30-300MHz > 25		MIL C-17	Capacity 100 ± 2 pF/m						
	300-600MHz > 23		IEC 332-1-2							
	600-100MHz > 20		CEI UNEL 36762							
 										




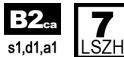






REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

LAN Cables



LAN cables (Cat. 6, 6a, 7, 7a) B2ca-s1,d1,a1



Structured wiring for telephone, data, video transmission, implementation of 10-Base-T, 100 Base-T, and 1000-Base-T (Gigabit Ethernet) LAN networks.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSElfext db	RL db						
4 x 2 x AWG 23 S/FTP Cat.7a LSZH - B2ca-s1,d1,a1 - Thermoplastic LSZH Gray																	
1886ELV 	B1000	5,2	CU 0,6mm	7,7	ISO/IEC 11801 Ed.2 EN 50173-1 EN 50575 IEC 61034-1/2 IEC 60754-1/2	1	2.1	78.0	75.0		20.0						
						4	3.7	78.0	75.0	23.0							
						10	5.8	78.0	75.0	25.0							
						16	7.3	78.0	75.0	25.0							
						31.2	10.3	78.0	75.0	23.6							
						62.5	14.6	78.0	75.0	21.5							
						100	18.5	75.4	72.4	20.1							
						250	29.7	69.4	66.4	17.3							
						600	47.1	63.7	60.7	17.3							
						1000	61.9	60.4	57.4	15.1							
						1200	68.4	59.2	56.2	14.3							
						Imped.: 100 ± 10 Ohm Velocity Ratio: 76% Capacity: 56 pF/m Foil: AL2/2 su singola coppia 100 % Braid: CuSn > 30 %											
																	
4 x 2 x AWG 23 S/FTP Cat.7 LSZH - B2ca-s1,d1,a1 - Thermoplastic LSZH Gray																	
1885ELV 	B1000	5,2	CU 0,6mm	7,6	ISO/IEC 11801 Ed.2 EN 50173-1 EN 50575 IEC 61034-1/2 IEC 60754-1/2	1	2.0	78.0	75.0		20.0						
						4	3.7	78.0	75.0	23.0							
						10	5.9	78.0	75.0	25.0							
						16	7.4	78.0	75.0	25.0							
						31.2	10.4	78.0	75.0	23.6							
						62.5	14.9	75.5	72.5	21.5							
						100	19.0	72.4	69.4	20.1							
						250	31.0	66.4	63.4	17.3							
						300	34.2	65.2	62.2	17.3							
						600	50.1	60.7	57.7	17.3							
						1000	66.9	57.4	54.4	15.1							
						Imped.: 100 ± 10 Ohm Velocity Ratio: 78% Capacity: 56 pF/m Foil: AL2/2 su singola coppia 100 % Braid: CuSn > 30 %											
																	
4 x 2 x AWG 23 U/FTP LSZH Cat.6A - B2ca-s1a,d1,a1 - Thermoplastic LSZH Blu																	
2203ELV 	On request	5,1	CU 0,6mm	7,1	ISO/IEC 11801 Ed.C1 EN 50173-1 Ed. 3 ANSI/TIA/EIA 568-B IEC 754-1 EN50267-1 IEC 60332-1	10	5,9	60,3	57,3		25,0						
						31,2	10,5	52,9	49,9	23,6							
						62,5	15,0	48,4	45,4	21,5							
						100	19,1	45,3	42,3	20,1							
						200	27,6	40,8	37,8	18,0							
						250	31,1	39,3	36,3	17,3							
						300	34,3	38,1	35,1	17,3							
						500	45,3	34,8	31,8	17,3							
						625	51,2	33,4	30,4	17,3							
						Imped.: 100 ± 15 Ohm Velocity Ratio: 77% Capacity: 56 pF/m Foil: Su ogni coppia: AL/Pet 100 %											
																	
						4 x 2 x AWG 23 F/FTP LSZH Cat.6A - B2ca-s1a,d1,a1 - Thermoplastic LSZH Blu											
2201ELV 	On request	5,3	CU 0,6mm	7,3	ISO/IEC 11801 Ed.C1 EN 50173-1 Ed. 3 ANSI/TIA/EIA 568-B IEC 754-1 EN50267-1 IEC 60332-1	10	5,9	60,3	57,3		25,0						
						31,2	10,5	52,9	49,9	23,6							
						62,5	15,0	48,4	45,4	21,5							
						100	19,1	45,3	42,3	20,1							
						200	27,6	40,8	37,8	18,0							
						250	31,1	39,3	36,3	17,3							
						300	34,3	38,1	35,1	17,3							
						500	45,3	34,8	31,8	17,3							
						625	51,2	33,4	30,4	17,3							
						Imped.: 100 ± 15 Ohm Velocity Ratio: 77% Capacity: 56 pF/m Foil: Su ogni coppia: AL/Pet 100 %											
																	
						4 x 2 x AWG 23 U/UTP Cat.6 LSZH - B2ca-s1,d1,a1 - Thermoplastic LSZH Blue											
7965ELV 	B1000	5,2	CU 0,51mm	6,6	ISO/IEC 11801 2.1 EIA/TIA 568-B.2.1 IEC 61034-1/2 IEC 60332-3-25 IEC 60754-1/2	1	2.0	75.3	75.3	67.8	20.0						
						4	3.7	66.3	66.3	55.8	23.0						
						10	5.8	60.3	60.3	47.8	25.0						
						16	7.4	57.2	57.2	43.7	25.0						
						31.2	10.4	52.9	52.9	37.9	23.6						
						62.5	15.0	48.4	48.4	31.9	21.5						
						100	19.3	45.3	45.3	27.8	20.8						
						200	28.3	40.8	40.8	21.8	18.7						
						250	32.1	39.3	39.3	19.8	18.0						
						300	35.6	38.1	36.1	18.3	17.5						
						350	38.9	37.1	35.1	16.9	17.0						
						Imped.: 100 ± 5 Ohm Velocity Ratio: 70% Capacity: 56 pF/m											
																	

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.















LEGEND:   EN 50575 reaction to fire class

 Cat. 7a  Cat. 6

LAN cables (Cat. 5, 5e, 6, 6a, 7)







Structured wiring for telephone, data, video transmission, implementation of 10-Base-T, 100 Base-T, and 1000-Base-T (Gigabit Ethernet) LAN networks.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSElft db	RL db
4 x 2 x AWG 23 S(FTP) Cat.7 LSZH - Thermoplastic LSZH Gray											
1885ENH 	B1000	6	CU 0,6mm	7,0	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332.1 IEC 754-2	1	1,9	100,0	98,0	95,0	26,0
						10	5,4	100,0	90,0	95,0	35,0
						20	7,6	100,0	98,0	87,0	35,0
						31,2	9,6	100,0	98,0	84,0	34,0
						62,5	13,6	100,0	98,0	80,0	32,0
						100	17,4	95,0	93,0	76,0	31,0
						155	21,7	95,0	93,0	72,0	29,0
						250	28,0	95,0	93,0	67,0	29,0
						600	43,5	90,0	88,0	60,0	28,0
						1000	56,6	90,0	88,0	56,0	20,0
Imped.: 100 ± 5 Ohm Velocity Ratio: 75% Capacity: 48 pF/m Foil: AL2/2 su singola coppia 100 % Braid: CuSn > 40 %											
 7 LSZH											
4 x 2 x AWG 23 U/UTP LSZH Cat.6A - Thermoplastic LSZH Blue											
2302ELZ 	B500	6	CU 0,6mm	7,2	ISO/IEC 11801 Ed.C1 EN 50173-1 Ed.3 ANSI/TIA/EIA 568-B IEC 754-1 EN50267-1 IEC 60332-1	10	5,9	60,3	58,3		25,0
						20	8,4	57,0	53,8	25,0	
						31,2	10,5	52,9	50,9	23,6	
						62,5	15,0	48,4	46,4	21,5	
						100	19,1	45,3	43,3	20,1	
						200	27,6	40,8	38,8	18,0	
						250	31,1	39,3	37,3	17,3	
						300	34,3	38,1	36,1	17,3	
						500	45,3	34,8	31,6	17,3	
						625	51,2	33,4	29,3	17,3	
Imped.: 100 ± 15 Ohm Velocity Ratio: 64% Capacity: 56 pF/m											
 6a LSZH											
4 x 2 x AWG 23 F/UTP LSZH Cat.6A - Thermoplastic LSZH Blue											
2200ENH 	B305	5,1	CU 0,6mm	7,2	ISO/IEC 11801 Ed. C1 EN 50173-1 Ed.3 ANSI/TIA/EIA 568-B IEC 754-1 EN50267-1 IEC 60332-1	10	5,9	60,3	58,3		25,0
						20	8,4	57,0	53,8	25,0	
						31,2	10,5	52,9	50,9	23,6	
						62,5	15,0	48,4	46,4	21,5	
						100	19,1	45,3	43,3	20,1	
						200	27,6	40,8	38,8	18,0	
						250	31,1	39,3	37,3	17,3	
						300	34,3	38,1	36,1	17,3	
						500	45,3	34,8	31,6	17,3	
						625	51,2	33,4	29,3	17,3	
Imped.: 100 ± 15 Ohm Velocity Ratio: 67% Capacity: 56 pF/m Foil: AL/Pet 100 %											
 6a LSZH											
4 x 2 x AWG 23 FTP Cat.6 LSZH Bonded Pairs - Thermoplastic LSZH Gray											
7860ELY 	B500	5,1	CU 0,6mm	7,3	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332.1 IEC 754-2	1	1,7	80,0	74,0	70,0	30,0
						10	5,5	70,0	64,0	57,0	40,0
						20	7,6	66,0	61,0	49,0	44,0
						31,2	9,7	63,0	54,0	45,0	44,0
						62,5	13,8	58,0	53,0	39,0	34,0
						100	17,7	55,0	50,0	35,0	30,0
						155	22,4	51,0	47,0	31,0	25,0
						200	25,1	49,0	46,0	29,0	24,0
						250	28,2	45,0	43,0	27,0	24,0
						Imped.: 100 ± 5 Ohm Velocity Ratio: 70% Capacity: 50 pF/m Foil: Al/Pet 100 %					
 6 LSZH											
4 x 2 x AWG 23 UTP Cat.6 LSZH - Thermoplastic LSZH Blue											
7965ENH 	B305 B500 B1000	3,7	CU 0,6mm	5,4	ISO/IEC 11801 E2 EIA/TIA 568 B.2-1 EN 50173-1 E1 IEC 332-1 IEC 61034-1/2 IEC 60754-1/2	1	2,1	75,0	72,3	72,3	20,0
						10	6,0	60,3	57,3	57,3	25,0
						20	8,5	55,8	52,8	58,2	25,0
						31,2	10,7	52,9	49,9	49,9	23,6
						62,5	15,5	48,4	45,4	45,4	21,5
						100	19,9	45,3	42,3	42,3	20,1
						155	25,3	42,4	39,4	39,4	18,8
						200	29,1	40,8	37,8	37,8	18,0
						250	33,0	39,3	36,3	36,3	17,3
						Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 56 pF/m					
 6 LSZH											
4 x 2 x AWG 24 UTP Cat.6 LSZH - Thermoplastic LSZH Blue											
7965GLZ 	B305 B500 B1000	3,2	CU 0,52mm	5,3	ISO/IEC 11801 E2 EIA/TIA 568.2-D EN 50173-1 E1 IEC 60332-1-2 IEC 61034-1/2 IEC 60754-1/2	1	2,1	75,0	72,3	72,3	20,0
						10	6,0	60,3	57,3	57,3	25,0
						20	8,5	55,8	52,8	58,2	25,0
						31,2	10,7	52,9	49,9	49,9	23,6
						62,5	15,5	48,4	45,4	45,4	21,5
						100	19,9	45,3	42,3	42,3	20,1
						155	25,3	42,4	39,4	39,4	18,8
						200	29,1	40,8	37,8	37,8	18,0
						250	33,0	39,3	36,3	36,3	17,3
						Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 56 pF/m					
 6 LSZH											

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

LAN cables (Cat. 5, 5e, 6, 6a, 7)






Structured wiring for telephone, data, video transmission, implementation of 10-Base-T, 100 Base-T, and 1000-Base-T (Gigabit Ethernet) LAN networks.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSEIfext db	RL db
4 x 2 x AWG 23 UTP Cat.6 - PVC flame retardant Gray											
7965E 	B305	3,7	CU 0,6mm	5,4	ISO/IEC 11801 E2 EIA/TIA 568 B.2-1 EN 50173-1 E1 IEC 332-1	1	2,1	75,0	72,3	72,3	20,0
	B500					10	6,0	60,3	57,3	57,3	25,0
	B1000					20	8,5	55,8	52,8	58,2	25,0
						31,2	10,7	52,9	49,9	49,9	23,6
						62,5	15,5	48,4	45,4	45,4	21,5
						100	19,9	45,3	42,3	42,3	20,1
	155	25,3	42,4	39,4	39,4	18,8					
	200	29,1	40,8	37,8	37,8	18,0					
	250	33,0	39,3	36,3	36,3	17,3					
E_{ca}	6 CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 56 pF/m									
4 x 2 x AWG 23 UTP Cat.6 PE - PE Black											
7965PE 	M100	3,7	CU 0,6mm	5,8	ISO/IEC 11801 E2 EIA/TIA 568 B.2-1 EN 50173-1 E1	1	2,1	75,0	72,3	72,3	20,0
	B500					10	6,0	60,3	57,3	57,3	25,0
	B1000					20	8,5	55,8	52,8	58,2	25,0
						31,2	10,7	52,9	49,9	49,9	23,6
						62,5	15,5	48,4	45,4	45,4	21,5
						100	19,9	45,3	42,3	42,3	20,1
	155	25,3	42,4	39,4	39,4	18,8					
	200	29,1	40,8	37,8	37,8	18,0					
	250	33,0	39,3	36,3	36,3	17,3					
F_{ca}	6 CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 56 pF/m									
4 x 2 x AWG 24 UTP Cat.5E ENHANCED - PVC flame retardant Gray											
1583E 	M100	2,8	CU 0,51mm	5,0	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332.1	1	1,9	73,0	71,0	71,0	33,0
	MB305					4	3,9	64,0	62,0	59,0	34,0
	B500					10	6,2	58,0	56,0	51,0	42,0
	B1000					16	7,9	55,0	53,0	46,0	42,0
						20	8,9	54,0	52,0	43,0	41,0
						31,2	11,2	51,0	49,0	39,0	35,0
	62,5	16,0	47,0	45,0	33,0	32,0					
	100	19,8	44,0	42,0	28,0	29,0					
E_{ca}	5e CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m									
4 x 2 x AWG 24 UTP Cat.5E ENHANCED PE - PE Nero anti UV											
1583EPE 	M100	2,8	CU 0,51mm	5,1	ISO/IEC 11801 D EIA/TIA 568-B2-1 EN 50173-1	1	1,9	73,0	71,0	71,0	33,0
	B250					4	3,9	64,0	62,0	59,0	34,0
	B500					10	6,2	58,0	56,0	51,0	42,0
						16	7,9	55,0	53,0	46,0	42,0
						20	8,9	54,0	52,0	43,0	41,0
						31,2	11,2	51,0	49,0	39,0	35,0
	62,5	16,0	47,0	45,0	33,0	32,0					
	100	19,8	44,0	42,0	28,0	29,0					
F_{ca}	5e CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m									
4 x 2 x AWG 24 UTP LSZH Cat.5E ENHANCED - LSZH Gray											
1583ENH 	MB305	2,8	CU 0,51mm	5,0	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332.1 IEC 754-2	1	1,9	73,0	71,0	71,0	33,0
						4	3,9	64,0	62,0	59,0	34,0
						10	6,2	58,0	56,0	51,0	42,0
						16	7,9	55,0	53,0	46,0	42,0
						20	8,9	54,0	52,0	43,0	41,0
						31,2	11,2	51,0	49,0	39,0	35,0
	62,5	16,0	47,0	45,0	33,0	32,0					
	100	19,8	44,0	42,0	28,0	29,0					
D_{ca} s2,d2,a1	5e CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m									
4 x 2 x AWG 24 FTP Cat.5E ENHANCED - PVC flame retardant Gray											
1633E 	M100	4,3	CU 0,51mm	6,0	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173-1	1	2,0	70,0	68,0	73,0	33,0
	MB305					4	3,8	62,0	60,0	61,0	34,0
	B500					10	6,0	57,0	55,0	53,0	42,0
	B1000					16	7,6	54,0	52,0	47,0	42,0
						20	8,5	52,0	50,0	45,0	41,0
						31,2	10,8	49,0	47,0	41,0	35,0
	62,5	15,0	45,0	43,0	37,0	32,0					
	100	19,3	43,0	41,0	33,0	29,0					
E_{ca}	5e CAT	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m Foil: AL/Pet 100 %									

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

LAN cables (Cat. 5, 5e, 6, 6a, 7)






Structured wiring for telephone, data, video transmission, implementation of 10-Base-T, 100 Base-T, and 1000-Base-T (Gigabit Ethernet) LAN networks.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSEIfext db	RL db
4 x 2 x AWG 24 FTP Cat.5E ENHANCED PE - PE Black											
1633PE 	M100	4	CU 0,51mm	6,3	ISO/IEC 11801 D	1	2,0	70,0	68,0	73,0	33,0
	MB305				EIA/TIA 568 C2	4	3,8	62,0	60,0	61,0	34,0
	B500				EN 50173	10	6,0	57,0	55,0	53,0	42,0
	B1000				IEC 332.1	16	7,6	54,0	52,0	47,0	42,0
						20	8,5	52,0	50,0	45,0	41,0
Imped.: 100 ± 15 Ohm					31,2	10,8	49,0	47,0	41,0	35,0	
Velocity Ratio: 70%					62,5	15,0	45,0	43,0	37,0	32,0	
Capacity: 50 pF/m					100	19,3	43,0	41,0	33,0	29,0	
Foil: AL/Pet 100 %											
F_{ca}	5e										
4 x 2 x AWG 24 FTP LSZH Cat.5E ENHANCED - Thermoplastic LSZH Gray											
1633ENH 	MB305	4,3	CU 0,51mm	6,0	ISO/IEC 11801 D	1	2,0	70,0	68,0	73,0	33,0
					EIA/TIA 568 C2	4	3,8	62,0	60,0	61,0	34,0
					EN 50173	10	6,0	57,0	55,0	53,0	42,0
					IEC 332.1	16	7,6	54,0	52,0	47,0	42,0
					IEC 754-2	20	8,5	52,0	50,0	45,0	41,0
Imped.: 100 ± 15 Ohm					31,2	10,8	49,0	47,0	41,0	35,0	
Velocity Ratio: 70%					62,5	15,0	45,0	43,0	37,0	32,0	
Capacity: 50 pF/m					100	19,3	43,0	41,0	33,0	29,0	
Foil: AL/Pet 100 %											
D_{ca}	5e										
s2,d2,a1	CAT										
4 x 2 x AWG 24 UTP PATCH FLEX Cat.5 - PVC flame retardant Gray - Insulation C-4 (U0=400V)											
44U7YGS 	M100	3,6	CU	5,3 ± 0,2	ISO/IEC 11801	1	2,0	83,0			20,0
	B300				EIA/TIA 568	4	4,3	73,0			23,0
	B1000				EN 50173	10	7,1	65,0			25,0
					IEC 332.1	16	9,2	63,0			25,0
						20	10,3	59,0			25,0
Imped.: 100 ± 15 Ohm					31,2	13,2	56,0			23,3	
Velocity Ratio: 68%					62,5	19,3	53,0			20,7	
Capacity: 49 pF/m					100	25,0	51,0			19,0	
Foil: AL/Pet 100 %											
E_{ca}	5										
CAT											
4 x 2 x AWG 24 FTP FLEX Cat.5 - PVC flame retardant Gray - Insulation C-4 (U0=400V)											
44F7YGR 	Su richiesta	4,6	CU	6,0	ISO/IEC 11801	1	2,0	83,0			20,0
					EIA/TIA 568	4	3,6	73,0			23,0
					EN 50173	10	6,5	65,0			25,0
					IEC 332-1-2	16	8,2	63,0			25,0
						20	9,1	59,0			25,0
Imped.: 100 ± 15 Ohm					31,2	11,6	56,0			23,3	
Velocity Ratio: 68%					62,5	16,5	53,0			20,7	
Capacity: 49 pF/m					100	21,1	51,0			19,0	
Foil: AL/Pet 100 %											
E_{ca}	5										
CAT											
4 x 2 x AWG 24 S(FTP) Cat 5 FLEX - PVC flame retardant Gray - Insulation C-4 (U0=400V)											
44S7YGR 	M100	5	CU	6,5	ISO/IEC 11801	1	2,12	83,0			20,0
	B300				EIA/TIA 568	4	3,7	73,0			23,0
	B500				EN 50173	10	6,5	65,0			25,0
	B1000				IEC 332-1-2	16	8,1	63,0			25,0
						20	9,0	59,0			25,0
Imped.: 100 ± 15 Ohm					31,2	11,6	56,0			23,3	
Velocity Ratio: 68%					62,5	16,5	53,0			20,7	
Capacity: 49 pF/m					100	20,9	51,0			19,0	
Foil: AL/Pet 100 %											
Braid: CuSn 65 %											
E_{ca}	5										
CAT											

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

LAN cables (Cat. 5e,6,7) Double Jacket for outdoor & direct burial applications

Structured cabling for LAN Fast Ethernet (100 Base-T), Gigabit Ethernet (1000 Base-T), 10 Gigabit Ethernet (10GBase-T). Cables suitable for outdoor installation and humid and cohabitation with power cables 450/750V and 0.6/1KV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSEIfext db	RL db				
4 X 2 AWG 23 S/FTP Cat.7 Double Jackets - Int. Jacket Thermoplastic LSZH Gray - Ext. PE Black UV res. - Insulation C-4 (U0=400V)															
74SFDPN	B1000	7,4	CU 0,6mm	9,3	ISO / IEC 11801/2° ed.	1	1,9	100,0	98,0	95,0	26,0				
			70 Ohm/km		prEN 50173/2° ed.	10	5,4	100,0	90,0	95,0	35,0				
					IEC 332.1	20	7,6	100,0	98,0	87,0	35,0				
					IEC 754-2	31,2	9,6	100,0	98,0	84,0	34,0				
					CEI UNEL 36762	62,5	13,6	100,0	98,0	80,0	32,0				
						100	17,4	95,0	93,0	76,0	31,0				
						155	21,7	95,0	93,0	72,0	29,0				
						250	28,0	95,0	93,0	67,0	29,0				
						600	43,5	90,0	88,0	60,0	28,0				
						1000	56,6	90,0	88,0	56,0	20,0				
F_{ca}	7	Imped.: 100 ± 5 Ohm Velocity Ratio: 78% Capacity: < 56 pF/m Foil: Individual pair shielding cov. 100 % Braid: CuSn > 30 %													
4 x 2 x AWG 23 F/UTP Cat.6 LSZH Bonded Pairs Double Jackets - Int. Jacket Thermoplastic LSZH Gray - Ext. PE Black - Insulation C-4 (U0=400V)															
64F1DPN	B500	5,8	CU 0,6mm	8,8 ± 0,2	ISO/IEC 11801 D	1	1,7	80,0	74,0	70,0	30,0				
			70 Ohm/km		EIA/TIA 568 C2	10	5,5	70,0	64,0	57,0	40,0				
					EN 50173	20	7,6	66,0	61,0	49,0	44,0				
					IEC 332-1-2	31,2	9,7	63,0	54,0	45,0	44,0				
					IEC 754-2	62,5	13,8	58,0	53,0	39,0	34,0				
					CEI UNEL 36762	100	17,7	55,0	50,0	35,0	30,0				
						155	22,4	51,0	47,0	31,0	25,0				
						200	25,1	49,0	46,0	29,0	24,0				
						250	28,2	45,0	43,0	27,0	24,0				
					F_{ca}	6	Imped.: 100 ± 5 Ohm Velocity Ratio: 70% Capacity: 50 pF/m Foil: Al/Pet 100 %								
4 x 2 x AWG 23 UTP Cat.6 LSZH Double Jackets - Int. Jacket Thermoplastic LSZH Gray - Ext. PE UV-resistant Black - Insulation C-4 (U0=400V)															
6UNDHPN	B500	5,7	CU 0,6mm	7,4	ISO/IEC 11801 D	1	1,7	76,0	74,0	70,0	33,0				
			70 Ohm/km		EIA/TIA 568 C2	10	5,6	66,0	64,0	57,0	44,0				
					EN 50173	20	8,0	63,0	61,0	49,0	40,0				
					IEC 332.1	31,2	10,1	56,0	54,0	45,0	38,0				
					IEC 754-2	62,5	14,4	55,0	53,0	39,0	36,0				
					CEI UNEL 36762	100	18,6	52,0	50,0	35,0	31,0				
						155	23,6	49,0	47,0	31,0	27,0				
						200	27,0	48,0	46,0	29,0	25,0				
						250	30,7	45,0	43,0	27,0	24,0				
					F_{ca}	6	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m								
4 x 2 x AWG24 FTP Cat.5E Double Jackets - Int. Jacket PVC flame retardant Gray - Ext. PE Black UV res. - Insulation C-4 (U0=400V)															
44FEDPN	M100	5,9	CU 0,52mm	7,9	ISO/IEC 11801 D	1	2,0	70,0	68,0	73,0	33,0				
	B500			EIA/TIA 568 C2	4	3,8	62,0	60,0	61,0	34,0					
	B1000				EN 50173	10	6,0	57,0	55,0	53,0	42,0				
					16	7,6	54,0	52,0	47,0	42,0					
					20	8,5	52,0	50,0	45,0	41,0					
					31,2	10,8	49,0	47,0	41,0	35,0					
					62,5	15,0	45,0	43,0	37,0	32,0					
					100	19,3	43,0	41,0	33,0	29,0					
	F_{ca}				5e	Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m Foil: AL/Pet 100 %									
	4 x 2 x AWG 24 UTP Cat.5E Double Jackets - Int. Jacket PVC flame retardant Gray - Ext. PE Black UV res. - Insulation C-4 (U0=400V)														
44UEDPN	M100	1,5	CU 0,51mm	5,7 ± 0,2	ISO/IEC 11801 D	1	1,9	73,0	71,0	71,0	33,0				
	B500			EIA/TIA 568 C2	4	3,9	64,0	62,0	59,0	34,0					
					EN 50173	10	6,2	58,0	56,0	51,0	42,0				
					16	7,9	55,0	53,0	46,0	42,0					
					20	8,9	54,0	52,0	43,0	41,0					
					31,2	11,2	51,0	49,0	39,0	35,0					
					62,5	16,0	47,0	45,0	33,0	32,0					
					100	19,8	44,0	42,0	28,0	29,0					
	F_{ca}				5e	Imped.: 100 ± 15 Ohm Velocity Ratio: 68% Capacity: 49 pF/m									

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.



LEGEND: **F_{ca}** EN 50575 reaction to fire class

7 Cat. 7 **5e** Cat. 5e

Optical cables

How to find the right cable?

The part-number identifies: product name, fiber type and number of fibers.

Example: GUSNC **E 24**



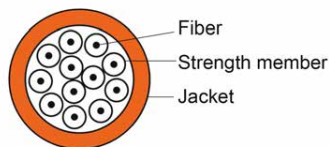
	Fiber Type	Wave length (nm)	Attenuation (db/km)	Bandwidth (MHz*Km)	Ethernet-Link Length (m)	
					1Gb	10Gb
D	Multi-mode 50/125 OM3	850	2,5-3,0	>1500	900	300
		1300	0,5-1,0	>500	550	/
E	Multi-mode 50/125 OM4	850	2,5-3,0	>6000	900	550
		1300	0,5-1,0	>500	550	/
8	Single-mode 9/125 G652D	1310 1550	0,32-0,40 0,21-0,30	not for Ethernet		

Fibers N°

4 fibers
8 fibers
12 fibers
24 fibers

Breakout fiber cable with LSZH jacket - Cca-s1a,d1,a1

LAN



Part Num.	Fibers	Fiber type	Diameter mm	Weight Kg/100m	Ext. Jacket	Traction N	Bending radius (stat./din.) mm
GUMTCA04	4	Single-mode 9/125 SM	5,7	3	LSZH Orange	1000	57/114
GUMTCA08	8	Single-mode 9/125 SM	6,2	3,5	LSZH Orange	1000	62/122
GUMTCA12	12	Single-mode 9/125 SM	7,9	4,8	LSZH Orange	1000	79/158
GUMTCA24	24	Single-mode 9/125 SM	9,8	7,1	LSZH Orange	1000	98/196
GUMTCD04	4	Multi-mode 50/125 OM3	5,7	3	LSZH Orange	1000	57/114
GUMTCD08	8	Multi-mode 50/125 OM3	6,2	3,5	LSZH Orange	1000	62/122
GUMTCD12	12	Multi-mode 50/125 OM3	7,9	4,8	LSZH Orange	1000	79/158
GUMTCD24	24	Multi-mode 50/125 OM3	9,8	7,1	LSZH Orange	1000	98/196
GUMTCE04	4	Multi-mode 50/125 OM4	5,7	3	LSZH Orange	1000	57/114
GUMTCE08	8	Multi-mode 50/125 OM4	6,2	3,5	LSZH Orange	1000	62/122
GUMTCE12	12	Multi-mode 50/125 OM4	7,9	4,8	LSZH Orange	1000	79/158
GUMTCE24	24	Multi-mode 50/125 OM4	9,8	7,1	LSZH Orange	1000	98/196

Applications

For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Not suitable for blown installation.

Temperature rating

-30 / +55 °C

Strength members

Aramid Yarn

Fiber Diameter

0,9mm - 280±10 µm

Crush resistance

3 kN/m

Standards

IEC 60332-1-2
IEC 60332-3-24
IEC 60754-1/2
IEC 61034-2
IEC 60794-3-20

Packaging

B2000

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Central Loose Tube (CLT) with LSZH jacket - Cca-s1a,d1,a1

LAN



Part Num.	Fibers	Fiber type	Diameter mm	Weight Kg/100m	Ext. Jacket	Traction N	Bending radius (stat./din.) mm
GUSNC804	4	Single-mode 9/125 SM	9,0	9,8	LSZH Orange	1500	90/180
GUSNC808	8	Single-mode 9/125 SM	9,0	9,8	LSZH Orange	1500	90/180
GUSNC812	12	Single-mode 9/125 SM	9,0	9,8	LSZH Orange	1500	90/180
GUSNC824	24	Single-mode 9/125 SM	9,0	9,8	LSZH Orange	1500	90/180
GUSNCD04	4	Multi-mode 50/125 OM3	9,0	9,8	LSZH Orange	1500	90/180
GUSNCD08	8	Multi-mode 50/125 OM3	9,0	9,8	LSZH Orange	1500	90/180
GUSNCD12	12	Multi-mode 50/125 OM3	9,0	9,8	LSZH Orange	1500	90/180
GUSNCD24	24	Multi-mode 50/125 OM3	9,0	9,8	LSZH Orange	1500	90/180
GUSNCE04	4	Multi-mode 50/125 OM4	9,0	9,8	LSZH Orange	1500	90/180
GUSNCE08	8	Multi-mode 50/125 OM4	9,0	9,8	LSZH Orange	1500	90/180
GUSNCE12	12	Multi-mode 50/125 OM4	9,0	9,8	LSZH Orange	1500	90/180
GUSNCE24	24	Multi-mode 50/125 OM4	9,0	9,8	LSZH Orange	1500	90/180

Applications

For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and/or tubes.

Temperature rating

-30 / +55 °C

Strength members

rodent protected

Fiber Diameter

245±10 µm

Buffer Diameter

3,3 mm

Crush resistance

7.5 kN/m

Standards

IEC 60332-1-2
IEC 60754-1/2
IEC 61034-2
IEC 60794-3-10

Packaging

B2000

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

CLT Fiber - Armured & Fire resistant with LSZH jacket - B2ca-s1a,d1,a1

LAN



Part Num.	Fibers	Fiber type	Diameter mm	Weight Kg/100m	Ext. Jacket	Traction N	Bending radius (stat./din.) mm
GUCNB804	4	Single-mode 9/125 SM	9,0	10,4	LSZH Black	2000	180/180
GUCNB808	8	Single-mode 9/125 SM	9,0	10,4	LSZH Black	2000	180/180
GUCNB812	12	Single-mode 9/125 SM	9,0	10,4	LSZH Black	2000	180/180
GUCNB824	24	Single-mode 9/125 SM	9,0	10,4	LSZH Black	2000	180/180
GUCNBD04	4	Multi-mode 50/125 OM3	9,0	10,4	LSZH Black	2000	180/180
GUCNBD08	8	Multi-mode 50/125 OM3	9,0	10,4	LSZH Black	2000	180/180
GUCNBD12	12	Multi-mode 50/125 OM3	9,0	10,4	LSZH Black	2000	180/180
GUCNBD24	24	Multi-mode 50/125 OM3	9,0	10,4	LSZH Black	2000	180/180
GUCNBE04	4	Multi-mode 50/125 OM4	9,0	10,4	LSZH Black	2000	180/180
GUCNBE08	8	Multi-mode 50/125 OM4	9,0	10,4	LSZH Black	2000	180/180
GUCNBE12	12	Multi-mode 50/125 OM4	9,0	10,4	LSZH Black	2000	180/180
GUCNBE24	24	Multi-mode 50/125 OM4	9,0	10,4	LSZH Black	2000	180/180

Applications

For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial.

Temperature rating

-30 / +55 °C

Strength members

Aramid Yarn Steel armoured

Fiber Diameter

250±15 µm

Buffer Diameter

3,3 mm

Crush resistance

11 kN/m

Standards

IEC 60332-1-2
IEC 60754-1/2
IEC 61034-2
IEC 60794-3-10
EN 50200 PH120
IEC 60331-25 E120

Packaging

B2000

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Fire Resistant cables

EN 50200 - UNI 9795:2021



EVAC cables FG290M16 (EF type) - Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
EF-25VH	CU 2x0,50 mm ² Red, Black	39	5,7	3,6	Mutual nom. 55	M100 B500 B1000
EF-45VH	CU 4x0,50 mm ² Red, Black, Blue, White	39	7,4	6,5	Mutual nom. 55	M100 B500 B1000
EF-27VH	CU 2x0,75 mm ² Red, Black	26	6,4	4,8	Mutual nom. 58	M100 B500 B1000
EF-47VH	CU 4x0,75 mm ² Red, Black, White, Blue	26	7,4	7,4	Mutual nom. 58	M100 B500 B1000
EF210VH	CU 2x1,00 mm ² Red, Black	19	6,2	5	Mutual nom. 60	M100 B500 B1000
EF410VH	CU 4x1,00 mm ² Red, Black, White, Blue	19	7,4	8,7	Mutual nom. 60	M100 B500 B1000
EF215VH	CU 2x1,50 mm ² Black, Red	12	7,4	7	Mutual nom. 65	M100 B500 B1000
EF415VH	CU 4x1,50 mm ² Red, Black, White, Blue	12	8,8	11,5	Mutual nom. 65	M100 B500 B1000
EF225VH	CU 2x2,50 mm ² Red, Black	8	8,6	9,7	Mutual nom. 70	M100 B500 B1000
EF240VH	CU 2x4,0 mm ² Red, Black	4,9	10,6	15	Mutual nom. 90	M100 B500 B1000
EF260VH	CU 2x6,0 mm ² Red, Black	3,3	12,6	22	Mutual nom. 100	M100 B500 B1000
EF425VH	CU 4x2,50 mm ² Red, Black, White, Blue	8	10,0	17	Mutual nom. 70	M100 B500 B1000

Applications

Unshielded Fire-Resistant cables 120 minutes for Voice Evacuation systems and Emergency Call systems. Halogen free, low emission of toxic fumes and gases and flame retardants. Suitable for indoor installations in public spaces, even in wet and outdoor (not for hard environments). Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Silicon G29

Insulation resistance at 20°C

Min 500 MOhm/Km

External Jacket

Thermoplastic LSZH M16 quality Violet

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +90 °C

Notes

Globally twisted.
Suitable for outdoor installation in conduit and in damp environments.

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

UNI 9795:2021
CEI EN 50200 PH120
CEI 20-105 V2
CEI EN60332-3-25
EN 50267-2-1
EN 50267-2-2
EN 61034-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

EVAC cables FG290M16 (EV type) - Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
EV-25VH	CU 2x0,50 mm ² Red, Black	39	5,7	3,6	Mutual nom. 55	M100 B500 B1000
EV-45VH	CU 4x0,50 mm ² Red, Black , White, Blue	39	7,4	6,5	Mutual nom. 55	M100 B500 B1000
EV-27VH	CU 2x0,75 mm ² Red, Black	26	6,4	4,8	Mutual nom. 58	M100 B500 B1000
EV-47VH	CU 4x0,75 mm ² Red, Black , White, Blue	26	7,4	7,4	Mutual nom. 58	M100 B500 B1000
EV210VH	CU 2x1,00 mm ² Red, Black	19	6,2	5	Mutual nom. 60	M100 B500 B1000
EV410VH	CU 4x1,00 mm ² Red, Black , White, Blue	19	7,4	8,7	Mutual nom. 60	M100 B500 B1000
EV215VH	CU 2x1,50 mm ² Red, Black	12	7,4	7	Mutual nom. 65	M100 B500 B1000
EV415VH	CU 4x1,50 mm ² Red, Black , White, Blue	12	8,8	11,5	Mutual nom. 65	M100 B500 B1000
EV225VH	CU 2x2,50 mm ² Red, Black	8	8,6	9,7	Mutual nom. 70	M100 B500 1000
EV240VH	CU 2x4,0 mm ² Red, Black	4,9	10,6	15	Mutual 120	M100 B500 B1000
EV260VH	CU 2x6,0 mm ² Red, Black	3,3	12,6	22	Mutual 160	M100 B500 1000
EV425VH	CU 4x2,50 mm ² Red, Black , White, Blue	8	10,0	17	Mutual nom. 70	M100 B500 B1000

Applications

Unshielded Fire-Resistant cables for 30 minutes for Voice Evacuation systems and Emergency Call systems. Halogen free, low emission of toxic fumes and gases and flame retardants. Suitable for indoor installations in public spaces, even in wet and outdoor (not for hard environments). Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Silicon G29

Insulation resistance at 20°C

Min 500 MOhm/Km

External Jacket

Thermoplastic LSZH M16 quality Violet

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +90 °C

Notes

Globally twisted.
Suitable for outdoor installation in conduit and in damp environments.

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

UNI 9795:2021
CEI EN 50200 PH30
CEI 20-105 V2
CEI EN60332-3-25
EN 50267-2-1
EN 50267-2-2
EN 61034-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Fire-Alarm cables FG29OHM16 (SF type) - Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
SF-25RZ	CU 2x0,50 mm ² Red, Black	39	5,7	4	Mutual nom. 95	M100 B500 B1000
SF-45RZ	CU 4x0,50 mm ² Red, Black , White, Blue	39	7,3	7,2	Mutual nom. 95	M100 B500 B1000
SF-27RZ	CU 2x0,75 mm ² Red, Black	26	6,4	5,2	Mutual nom. 100	M100 B500 B1000
SF-47RZ	CU 4x0,75 mm ² Red, Black , White, Blue	26	7,5	8	Mutual nom. 100	M100 B500 B1000
SF210RZ	CU 2x1,00 mm ² Red, Black	19	6,3	5,4	Mutual nom. 110	M100 B500 B1000
SF310RZ	CU 3x1,00 mm ² Red, Black , White	19	6,7	7	Mutual nom. 110	M100 B500 B1000
SF410RZ	CU 4x1,00 mm ² Red, Black , White, Blue	19	7,4	9	Mutual nom. 110	M100 B500 B1000
SF215RZ	CU 2x1,50 mm ² Red, Black	12	7,5	7,4	Mutual nom. 120	M100 B500 B1000
SF315RZ	CU 3x1,50 mm ² Red, Black , White	12	7,7	9,2	Mutual nom. 120	M100 B500 B1000
SF415RZ	CU 4x1,50 mm ² Red, Black , White, Blue	12	8,6	12	Mutual nom. 120	M100 B500 B1000
SF225RZ	CU 2x2,50 mm ² Red, Black	8	8,7	10	Mutual 140	M100 B500 B1000
SF425RZ	CU 4x2,50 mm ² Red, Black , White, Blue	8	10,0	18,2	Mutual nom. 140	M100 B500 B1000

Applications

Shielded Fire-Resistant cables for 120 minutes. Cables for permanent laying Fire Alarm systems. Halogen free, low emission of toxic fumes and gases and flame retardants. Suitable for indoor installations in public spaces, even in wet and outdoor (not for hard environments). Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Silicon G29

Insulation resistance at 20°C

Min 500 MOhm/Km

Shielding

Al/Pet 100 %

External Jacket

Thermoplastic LSZH M16 quality Red

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +90 °C

Notes

Globally twisted.
Suitable for outdoor installation in conduit and in damp environments.

CPR fire reaction class
acc. to EN 50575: Cca-s1b,d1,a1

Standards

UNI 9795:2021
CEI EN 50200 PH120
CEI 20-105 V2
CEI EN60332-3-25
EN 50267-2-1
EN 50267-2-2
EN 61034-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Fire-Alarm cables FG29OHM16 (PH type) - Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
PH-25RZ	CU 2x0,50 mm ² Red, Black	39	5,7	4	Mutual nom. 95	M100 B500 B1000
PH-45RZ	CU 4x0,50 mm ² Red, Black , White, Blue	39	7,3	7,2	Mutual nom. 95	M100 B500 B1000
PH-27RZ	CU 2x0,75 mm ² Red, Black	26	6,4	5,2	Mutual nom. 100	M100 B500 B1000
PH-47RZ	CU 4x0,75 mm ² Red, Black , White, Blue	26	7,5	8	Mutual nom. 100	M100 B500 B1000
PH210RZ	CU 2x1,00 mm ² Red, Black	19	6,3	5,4	Mutual nom. 110	M100 B500 B1000
PH310RZ	CU 3x1,00 mm ² Red, Black , White	19	6,7	7	Mutual nom. 110	M100 B500 B1000
PH410RZ	CU 4x1,00 mm ² Red, Black , White, Blue	19	7,4	9	Mutual nom. 110	M100 B500 B1000
PH215RZ	CU 2x1,50 mm ² Red, Black	12	7,5	7,4	Mutual nom. 120	M100 B500 B1000
PH315RZ	CU 3x1,50 mm ² Red, Black , White	12	7,7	9,2	Mutual nom. 120	M100 B500 B1000
PH415RZ	CU 4x1,50 mm ² Red, Black , White, Blue	12	8,6	12	Mutual nom. 120	M100 B500 B1000
PH225RZ	CU 2x2,50 mm ² Red, Black	8	8,7	10	Mutual nom. 140	M100 B500 B1000
PH425RZ	CU 4x2,50 mm ² Red, Black , White, Blue	8	10,0	18,2	Mutual nom. 140	M100 B500 B1000

Applications

Shielded Fire-Resistant cables for 30 minutes. Cables for permanent laying Fire Alarm systems. Halogen free, low emission of toxic fumes and gases and flame retardants. Suitable for indoor installations in public spaces, even in wet and outdoor (not for hard environments). Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Silicon G29

Insulation resistance at 20°C

Min 500 MOhm/Km

Shielding

Al/Pet 100 %

External Jacket

Thermoplastic LSZH M16 quality Red

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +90 °C

Notes

Globally twisted.
Suitable for outdoor installation in conduit and in damp environments.

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

UNI 9795:2021
CEI EN 50200 PH30
CEI 20-105 V2
CEI EN60332-3-25
EN 50267-2-1
EN 50267-2-2
EN 61034-2
EN 60754-2

EN 60754-2 cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Mica cables FTS29OM16 (EM type) and FTE29OHM16 (PM type) - Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
EM210VH	CU 2x 1,00 mm ² Red, Black	18	8,8	8,5	Mutual 45	M100 B500 1000
EM215VH	CU 2x 1,50 mm ² Red, Black	12	9,7	9,1	Mutual 60	M100 B500 1000
EM225VH	CU 2x 2,50 mm ² Red, Black	8	11,2	12,4	Mutual 55	M100 B500 1000
EM240VH	CU 2x 4,0 mm ² Red, Black	4,3	12,2	17	Mutual 65	M100 B500 1000
PM210RZ	CU 2x 1,00 mm ² Red, Black	12	8,8	9	Mutual 50	M100 B500 1000
PM215RZ	CU 2x 1,50 mm ² Red, Black	12	9,8	11	Mutual 60	M100 B500 1000
PM225RZ	CU 2x 2,50 mm ² Red, Black	8	11,3	13,6	Mutual 60	M100 B500 1000
PM240RZ	CU 2x 4,0 mm ² Red, Black	4,3	12,2	18,6	Mutual 60	M100 B500 1000

Applications

Fire-resistant cables 120 minutes for Voice-evacuation systems (EM type) and Fire-alarm systems (PM type). Halogen free, low emission of toxic fumes and gases and flame retardants. Suitable for indoor installations in public spaces, even in wet and outdoor (not for hard environments). Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Mica tape + Thermoplastic S29 quality

Insulation resistance at 20°C

Min 500 MOhm/Km

External Jacket

Thermoplastic LSZH M16 quality Violet

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +80 °C

Notes

Globally twisted.
Suitable for outdoor installation in conduit and in damp environments.

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

UNI 9795:2021
CEI EN 50200 PH120
CEI 20-105 V2
CEI EN60332-3-25
EN 50267-2-1
EN 50267-2-2
EN 61034-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and Anti-Intrusion



Alarm and security cables TM19/HM39 with LSZH sheath (IQ type) B2ca-s1a,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IQ-02BZ	CU 2x0,22mm ² White, Brown	89	4,7	3,1	Mutual 120	M100 B500 B1000
IQ-42BZ	CU 4x0,22mm ² White, Brown, Green, Yellow	89	4,7	3,2	Mutual 120	M100 B500 B1000
IQ-62BZ	CU 6x0,22mm ² Colori secondo DIN 47100	89	5	3,8	Mutual 120	M100 B500 B1000
IQ-82BZ	CU 8x0,22mm ² DIN 47100	89	5,0	3,7	Mutual Max 120	M100 B500 B1000
IQ102BZ	CU 10x0,22mm ² Colori secondo DIN 47100	89	5,4	4,5	Mutual Max 120	M100 B500 B1000
IQ-05BZ	CU 2x0,5mm ² Red, Black	39	4,3	3,7	Mutual 120	M100 B500 B1000
IQ-25BZ	CU 2x0,5mm ² CU 2x0,22mm ² Red, Black, DIN 47100	39 89	4,9	4	Mutual 120	M100 B500 B1000
IQ-45BZ	CU 2x0,5mm ² CU 4x0,22mm ² Red, Black, DIN 47100	39 89	5,1	3,8	Mutual 120	M100 B500 B1000
IQ-65BZ	CU 2x0,5mm ² CU 6x0,22mm ² Red, Black, DIN 47100	39 89	5,5	4,5	Mutual 120	M100 B500 B1000
IQ-85BZ	CU 2x0,5mm ² CU 8x0,22mm ² Red, Black, DIN 47100	39 89	5,8	5,4	Mutual 120	M100 B500 B1000
IQ105BZ	CU 2x0,5mm ² CU 10x0,22mm ² Red, Black, DIN 47100	39 89	6,2	5,8	Mutual 120	M100 B500 B1000
IQ405BZ	CU 4x0,5mm ² White, Brown, Green, Yellow	39	6,1	4,9	Mutual 120	M100 B500 B1000
IQ605BZ	CU 6x0,5mm ² Colori secondo DIN 47100	39	6,4	5,1	Mutual 120	M100 B500 B1000
IQ-07BZ	CU 2x0,75mm ² Red, Black	26	5,0	3,5	Mutual 120	M100 B500 B1000
IQ-47BZ	CU 2x0,75mm ² CU 4x0,22mm ² Red, Black, DIN 47100	26 89	5,2	4,3	Mutual Max 120	M100 B500 B1000
IQ-67BZ	CU 2x0,75mm ² CU 6x0,22mm ² Red, Black, DIN 47100	26 89	5,8	5,1	Mutual 120	M100 B500 B1000
IQ-87BZ	CU 2x0,75mm ² CU 8x0,22mm ² Red, Black, DIN 47100	26 89	5,8	5,4	Mutual 120	M100 B500 B1000
IQ107BZ	CU 2x0,75mm ² CU 10x0,22mm ² Red, Black, DIN 47100	26 89	6,5	8	Mutual Max 120	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Halogen free, low emission of toxic fumes and gases and flame retardants.

Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

Thermoplastic LSZH White

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass according to EN 50575: B2ca-s1a,d1,a1

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEN 50267-2-1/2
CEI EN 61034-2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TM19/HM39 with LSZH sheath (IQ type) B2ca-s1a,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IQ127BZ	CU 2x0,75mm ² CU 12x0,22mm ² Red, Black, DIN 47100	26 89	6,8	7,3	Mutual 120	M100 B500 B1000
IQ147BZ	CU 2x0,75mm ² CU 12x0,22mm ² Red, Black, DIN 47100	26 89	7,3	8,4	Mutual 120	M100 B500 B1000
IQ227BZ	CU 2x2x0,75mm ² White/Brown e Green/Yellow	26	7,2	6,8	Mutual 120	M100 B500 B1000
IQ475BZ	CU 4x0,75mm ² White, Brown, Green, Yellow	26	6,1	5,9	Mutual 120	M100 B500 B1000
IQ-21BZ	CU 2x1mm ² Red, Black	19	6,0	5	Mutual 120	M100 B500 B1000
IQ-41BZ	CU 4x1mm ² White, Brown, Green, Yellow	19	7,0	7,9	Mutual 120	M100 B500 B1000
IQ251BZ	CU 2x1mm ² CU 2x0,5mm ² Red, Black, White, Brown	19 39	6,1	6,2	Mutual 120	M100 B500 B1000
IQ221BZ	CU 2x2x1mm ² White/Brown e Green/Yellow	19	8,3	8,6	Mutual 120	M100 B500 B1000
IQ215BZ	CU 2x1,5mm ² Red, Black	12	6,7	6,4	Mutual 120	M100 B500 B1000
IQ-2PBZ	CU 2x1,5mm ² CU 2x0,22mm ² Red, Black, White, Brown	12 89	6,5	6,5	Mutual 120	M100 B500 B1000
IQ225BZ	CU 2x2,5mm ² Colori secondo DIN 47100	8	7,8	8,7	Mutual 120	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Halogen free, low emission of toxic fumes and gases and flame retardants. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

Thermoplastic LSZH White

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass according to EN 50575: B2ca-s1a,d1,a1

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEN 50267-2-1/2
CEI EN 61034-2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TM19/HM29 with LSZH sheath (IK type) Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IK-02BZ	CU 2x0,22mm ² White, Brown	89	4,7	3,1	Mutual 120	M100 B500 B1000
IK-42BZ	CU 4x0,22mm ² White, Brown, Green, Yellow	89	4,7	3,2	Mutual 120	M100 B500 B1000
IK-62BZ	CU 6x0,22mm ² Colori secondo DIN 47100	89	5	3,8	Mutual 120	M100 B500 B1000
IK-82BZ	CU 8x0,22mm ² Colori secondo DIN 47100	89	5,0	3,7	Mutual 120	M100 B500 B1000
IK102BZ	CU 10x0,22mm ² Colori secondo DIN 47100	89	5,4	4,5	Mutual 120	M100 B500 B1000
IK-05BZ	CU 2x0,5mm ² Red, Black	39	4,3	3,7	Mutual 120	M100 B500 B1000
IK-25BZ	CU 2x0,5mm ² CU 2x0,22mm ² Red, Black, DIN 47100	39 89	4,9	4	Mutual 120	M100 B500 B1000
IK-45BZ	CU 2x0,5mm ² CU 4x0,22mm ² Red, Black, DIN 47100	39 89	5,0	3,8	Mutual 120	M100 B500 B1000
IK-65BZ	CU 2x0,5mm ² CU 6x0,22mm ² Red, Black, DIN 47100	39 89	5,5	4,5	Mutual 120	M100 B500 B1000
IK-85BZ	CU 2x0,5mm ² CU 8x0,22mm ² Red, Black, DIN 47100	39 89	5,8	5,4	Mutual 120	M100 B500 B1000
IK105BZ	CU 2x0,5mm ² CU 10x0,22mm ² Red, Black, DIN 47100	39 89	6,2	5,8	Mutual 120	M100 B500 B1000
IK405BZ	CU 4x0,5mm ² White, Brown, Green, Yellow	39	6,1	4,9	Mutual 120	M100 B500 B1000
IK605BZ	CU 6x0,5mm ² Colori secondo DIN 47100	39	6,4	5,1	Mutual 120	M100 B500 B1000
IK-07BZ	CU 2x0,75mm ² Red, Black	26	5,0	3,5	Mutual 120	M100 B500 B1000
IK-47BZ	CU 2x0,75mm ² CU 4x0,22mm ² Red, Black, DIN 47100	26 89	5,2	4,3	Mutual 120	M100 B500 B1000
IK-67BZ	CU 2x0,75mm ² CU 6x0,22mm ² Red, Black, DIN 47100	26 89	5,8	5,1	Mutual 120	M100 B500 B1000
IK-87BZ	CU 2x0,75mm ² CU 8x0,22mm ² Red, Black, DIN 47100	26 89	5,8	5,4	Mutual 120	M100 B500 B1000
IK107BZ	CU 2x0,75mm ² CU 10x0,22mm ² Red, Black, DIN 47100	26 89	6,5	8	Mutual 120	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Halogen free, low emission of toxic fumes and gases and flame retardants. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

Thermoplastic LSZH White

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEN 50267-2-1/2
CEI EN 61034-2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TM19/HM29 with LSZH sheath (IK type) Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IK127BZ	CU 2x0,75mm ²	26	6,8	7,3	Mutual 120	M100 B500 B1000
	CU 12x0,22mm ² Red, Black, DIN 47100	89				
IK147BZ	CU 2x0,75mm ²	26	7,3	8,4	Mutual 120	M100 B500 B1000
	CU 12x0,22mm ² Red, Black, DIN 47100	89				
IK227BZ	CU 2x2x0,75mm ² White/Brown e Green/Yellow	26	7,2	6,8	Mutual 120	M100 B500 B1000
IK475BZ	CU 4x0,75mm ² White, Brown, Green, Yellow	26	6,1	5,9	Mutual 120	M100 B500 B1000
IK-21BZ	CU 2x1mm ² Red, Black	19	6,0	5	Mutual 120	M100 B500 B1000
IK-41BZ	CU 4x1mm ² White, Brown, Green, Yellow	19	7,0	7,9	Mutual 120	M100 B500 B1000
IK251BZ	CU 2x1mm ²	19	6,1	6,2	Mutual 120	M100 B500 B1000
	CU 2x0,5mm ² Red, Black, White, Brown	39				
IK221BZ	CU 2x2x1mm ² White/Brown e Green/Yellow	19	8,3	8,6	Mutual 120	M100 B500 B1000
IK215BZ	CU 2x1,5mm ² Red, Black	12	6,7	6	Mutual 120	M100 B500 B1000
IK-2PBZ	CU 2x1,5mm ²	12	6,5	6,5	Mutual 120	M100 B500 B1000
	CU 2x0,22mm ² Red, Black, White, Brown	89				
IK225BZ	CU 2x2,5mm ² Colori secondo DIN 47100	8	7,8	8,7	Mutual 120	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Halogen free, low emission of toxic fumes and gases and flame retardants. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

Thermoplastic LSZH White

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEN 50267-2-1/2
CEI EN 61034-2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TS19/HR19 (IC type) - Cca-s3,d1,a3

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IC-02BA	CU 2x0,22mm ² White, Brown	89	4,7	2,9	Mutual 120	M100 B500 B1000
IC-67BA	CU 2x0,75mm ² CU 6x0,22mm ² Red, Black, DIN 47100	26 89	5,8	5,5	Mutual 120	M100 B500 B1000
IC-42BA	CU 4x0,22mm ² White, Brown, Green, Yellow	89	4,7	3,2	Mutual 120	M100 B500 B1000
IC-87BA	CU 2x0,75mm ² CU 8x0,22mm ² Red, Black, DIN 47100	26 89	6,0	6,3	Mutual 120	M100 B500 B1000
IC-62BA	CU 6x0,22mm ² Colori secondo DIN 47100	89	4,5	3,1	Mutual 120	M100 B500 B1000
IC-82BA	CU 8x0,22mm ² Colori secondo DIN 47100	89	5,0	5	Mutual 120	M100 B500 B1000
IC102BA	CU 10x0,22mm ² Colori secondo DIN 47100	89	5,4	4,6	Mutual 120	M100 B500 B1000
IC-05BA	CU 2x0,5mm ² Red, Black	39	4,3	3	Mutual 120	M100 B500 B1000
IC-25BA	CU 2x0,5mm ² CU 2x0,22mm ² Red, Black, DIN 47100	39 89	4,7	3	Mutual 120	M100 B500 B1000
IC-45BA	CU 2x0,5mm ² CU 4x0,22mm ² Red, Black, DIN 47100	39 89	5,1	4	Mutual 120	M100 B500 B1000
IC-65BA	CU 2x0,5mm ² CU 6x0,22mm ² Red, Black, DIN 47100	39 89	5,4	4,5	Mutual 120	M100 B500 B1000
IC-85BA	CU 2x0,5mm ² CU 8x0,22mm ² Red, Black, DIN 47100	39 89	5,8	6	Mutual 120	M100 B500 B1000
IC105BA	CU 2x0,5mm ² CU 10x0,22mm ² Red, Black, DIN 47100	39 89	6,2	5,4	Mutual 120	M100 B500 B1000
IC405BA	CU 4x0,5mm ² White, Brown, Green, Yellow	39	5,5	5	Mutual 110	M100 B500 B1000
IC605BA	CU 6x0,5mm ² Colori secondo DIN 47100	39	6,3	6,1	Mutual 120	M100 B500 B1000
IC-07BA	CU 2x0,75mm ² Red, Black	26	4,6	3,1	Mutual 120	M100 B500 B1000
IC-27BA	CU 2x0,75mm ² CU 2x0,22mm ² Red, Black, DIN 47100	26 89	4,7	3,7	Mutual 120	M100 B500 B1000
IC-47BA	CU 2x0,75mm ² CU 4x0,22mm ² Red, Black, DIN 47100	26 89	5,1	4,6	Mutual 120	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

PVC flame retardant White

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Cca-s3,d1,a3

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TS19/HR19 (IC type) - Cca-s3,d1,a3

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IC107BA	CU 2x0,75mm ² CU 10x0,22mm ² Red, Black, DIN 47100	26 89	6,8	7,5	Mutual 120	M100 B500 B1000
IC127BA	CU 2x0,75mm ² CU 12x0,22mm ² Red, Black, DIN 47100	26 89	7,4	8,5	Mutual 120	M100 B500 B1000
IC475BA	CU 4x0,75mm ² White, Brown, Green, Yellow	26	6,1	6,3	Mutual 120	M100 B500 B1000
IC-21BA	CU 2x1mm ² Red, Black	19	5,9	5	Mutual 130	M100 B500 B1000
IC251BA	CU 2x1mm ² CU 2x0,5mm ² Red, Black, White, Brown	19 39	6,1	6,2	Mutual 120	M100 B500 B1000
IC-41BA	CU 4x1mm ² White, Brown, Green, Yellow	19	6,9	8,3	Mutual 120	M100 B500 B1000
IC215BA	CU 2x1,5mm ² Red, Black	12	6,7	6,3	Mutual 140	M100 B500 B1000
IC-2PBA	CU 2x1,5mm ² CU 2x0,22mm ² Red, Black, White, Brown	12 89	6,7	6,7	Mutual 150	M100 B500 B1000

Applications

Alarm systems, anti-intrusion systems, smoke detection, fire detection and industrial monitoring. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

PVC flame retardant White

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Cca-s3,d1,a3

Standards

CEI 46-76
CEI EN 60332-1-2
CEI EN 60332-3C
CEI UNEL 367622

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Alarm and security cables TRH /E (IP type) - Fca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
IP-02PB	CU 2x0,22 mm ² White, Brown	89	3,3	2,4	Mutual 120	M100 B500 1000
IP-42PB	CU 4x0,22 mm ² White, Brown, Green, Yellow	89	3,7	3,5	Mutual 120	M100 B500 1000
IP-62PB	CU 6x0,22 mm ² Colori secondo DIN 47100	89	4,5	2,7	Mutual 120	M100 B500 1000
IP-82PB	CU 8x0,22 mm ² Colori secondo DIN 47100	89	5,0	5,1	Mutual 120	M100 B500 1000
IP102PB	CU 10x0,22 mm ² Colori secondo DIN 47100	89	5,4	5,2	Mutual 120	M100 B500 1000
IP-05PB	CU 2x0,50 mm ² Red, Black	39	4,3	2,1	Mutual 120	M100 B500 1000
IP-25PB	CU 2x0,50 mm ² CU 2x0,22 mm ² Red, Black, DIN 47100	39 89	4,3	4,4	Mutual 120	M100 B500 1000
IP-45PB	CU 2x0,50 mm ² CU 4x0,22 mm ² Red, Black, DIN 47100	39 89	4,9	3,5	Mutual 120	M100 B500 1000
IP-65PB	CU 2x0,50 mm ² CU 6x0,22 mm ² Red, Black, DIN 47100	39 89	5,5	6	Mutual 120	M100 B500 1000
IP-85PB	CU 2x0,50 mm ² CU 8x0,22 mm ² Red, Black, DIN 47100	39 89	5,8	6,6	Mutual 120	M100 B500 1000
IP105PB	CU 2x0,50 mm ² CU 10x0,22 mm ² Red, Black, DIN 47100	39 89	6,2	7,4	Mutual 120	M100 B500 1000
IP-07PB	CU 2x0,75 mm ² Red, Black	26	4,6	4,5	Mutual 120	M100 B500 1000
IP-27PB	CU 2x0,75 mm ² CU 2x0,22 mm ² Red, Black, DIN 47100	26 89	4,7	5,3	Mutual 120	M100 B500 1000
IP-47PB	CU 2x0,75 mm ² CU 4x0,22 mm ² Red, Black, DIN 47100	26 89	5,2	3,8	Mutual 120	M100 B500 1000
IP-67PB	CU 2x0,75 mm ² CU 6x0,22 mm ² Red, Black, DIN 47100	26 89	5,8	7,1	Mutual 120	M100 B500 1000
IP-87PB	CU 2x0,75 mm ² CU 8x0,22 mm ² Red, Black, DIN 47100	26 89	6,0	5,7	Mutual 120	M100 B500 1000
IP107PB	CU 2x0,75 mm ² CU 10x0,22 mm ² Red, Black, DIN 47100	26 89	6,5	8	Mutual 120	M100 B500 1000
IP127PB	CU 2x0,75 mm ² CU 12x0,22 mm ² Red, Black, DIN 47100	26 89	6,8	8,4	Mutual 120	M100 B500 1000

Applications

Alarm systems, anti-intrusion systems and industrial monitoring. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %

External Jacket

PE Blue

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

2,5 KV

Temperature rating

-40 / +80 °C

Notes

D.G.
CPR Reaction to fire EuroClass according to EN 50575: Fca

Standards

CEI 46-76
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Video surveillance and CCTV camera cables



HD Video Surveillance and CCTV camera cables (DK type) Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
DK40GBH	CW 0,41mm CU 2x0,5mm ² Red, Black	320 39	4,8 x 7,7	5	53 ± 2	M100
DK40TBH	CW 0,41mm CU 2x0,5mm ² +2x0,22mm ² Red, Black, White, Green	320 39	7,5 x 5,3	5,5	53 ± 2	M100
DK40LBH	CW 0,41mm CU 2x0,75mm ² Red, Black	320 24	7,8 x 5,0	6	53 ± 2	M100
DK40UBH	CW 0,41mm CU 2x0,75mm ² +2x0,22mm ² Red, Black, White, Green	320 24	8,0 x 5,4	6,5	53 ± 2	M100
DK40NBH	CW 0,41mm CU 2x1,0mm ² Red, Black	320 19	9,2 x 5,4	7,7	53 ± 2	M100
DK40PBH	CW 0,41mm CU 2x1,5mm ² Red, Black	320 13	10,0 x 5,2	8	53 ± 2	M100
DK40QBH	CW 0,41mm CU 2x2,5mm ² Red, Black	320 8	11,0 x 7,5	10	53 ± 2	M100
DK80GBH	CU 0,80mm CU 2x0,5mm ² Red, Black	35 39	9,0 x 6,2	7,5	53 ± 2	M100
DK80LBH	CU 0,80mm CU 2x0,75mm ² Red, Black	35 24	9,4 x 6,4	8,5	53 ± 2	M100
DK80NBH	CU 0,80mm CU 2x1,0mm ² Red, Black	35 19	9,5 x 6,4	7,7	53 ± 2	M100
DK80PBH	CU 0,80mm CU 2x1,5mm ² Red, Black	35 13	11,4 x 6,5	9	53 ± 2	M100
DK80QBH	CU 0,80mm CU 2x2,5mm ² Red, Black	35 8	10,0	12,5	53 ± 2	Da definire

Applications

Video surveillance systems, CCTV, video analog and digital HD-SDI and control, with tinned copper shield. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Maximum length for digital signals:

- 100m for DK40xx
- 200m for DK80xx

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

MΩm/Km

Shielding

AL2 100 %
CuSn 60 %

External Jacket

Thermoplastic LSZH Blue

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +80 °C

Notes

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

EN 50117
EN 60332-1-2
EN 60754-1-2
EN 61034-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

HD Video Surveillance and CCTV camera cables (DS type) - Eca



Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
DS40GBH	Cu 0,40mm CU 2x0,5mm ² Red, Black	136 39	7,7 x 4,8	5	53 ± 2	M100
DS40TBH	Cu 0,40mm CU 2x0,5mm ² +2x0,22mm ² Red, Black, White, Green	136 39	7,5 x 5,3	5,5	53 ± 2	M100
DS40LBH	Cu 0,40mm CU 2x0,75mm ² Red, Black	136 24	7,8 x 5,0	6	53 ± 2	M100
DS40UBH	Cu 0,40mm CU 2x0,75mm ² +2x0,22mm ² Red, Black, White, Green	136 24	8,0 x 5,4	6,5	53 ± 2	M100
DS40NBH	Cu 0,40mm CU 2x1,0mm ² Red, Black	136 19	9,2 x 5,4	6,7	53 ± 2	M100
DS40PBH	Cu 0,40mm CU 2x1,5mm ² Red, Black	136 13	10,0 x 5,2	8	53 ± 2	M100
DS40QBH	Cu 0,40mm CU 2x2,5mm ² Red, Black	136 8	11,0 x 7,5	10	53 ± 2	M100
DS80GBH	CU 0,80mm CU 2x0,5mm ² Red, Black	35 39	9,0 x 6,2	7,5	53 ± 2	M100
DS80LBH	CU 0,80mm CU 2x0,75mm ² Red, Black	35 24	9,4 x 6,4	8,5	53 ± 2	M100
DS80NBH	CU 0,80mm CU 2x1,0mm ² Red, Black	35 19	9,5 x 6,4	9,4	53 ± 2	M100
DS80PBH	CU 0,80mm CU 2x1,5mm ² Red, Black	35 13	11,4 x 6,5	9	53 ± 2	M100
DS80QBH	CU 0,80mm CU 2x2,5mm ² Red, Black	35 8	10,0	13	53 ± 2	M100
DS-40BH	Cu 0,40mm	136	3,3	1,2	53 ± 2	M100
DS40DPN	Cu 0,40mm	136	4,7	1,5	53 ± 2	M100
DS-80BH	CU 0,80mm	35	5,0	2,5	53 ± 2	M100
DS80DPN	CU 0,80mm	35	6,4	3,8	53 ± 2	M100
DS140BH	CU 1,4mm	11,7	7,5	5,4	53 ± 2	M100
DS14DPN	CU 1,4mm	11,7	9,0	6,9	53 ± 2	M100

Applications

Video surveillance systems, CCTV, video analog and digital HD-SDI and control, with tinned copper shield. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Maximum length for digital signals:

- 100m for DS40xx
- 200m for DS80xx
- 300m for DS14xx

Insulation

PVC flame retardant

Insulation resistance at 20°C

MΩm/Km

Shielding

AL2 100 %
CuSn 60 %

External Jacket

Thermoplastic LSZH Blue

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +80 °C

Notes

Lunghezza massima consentita del collegamento video:
Analogico: 470m
Digitale: 100m.
Ammissa la posa esterna e interrata in cavidotto.
CPR Reaction to fire EuroClass according to EN 50575: Eca





Standards

EN 50117
CEI 46-1
IEC 754-2
CEI-UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

LAN Video Surveillance with supply - Eca








Security systems, video-control, CCTV with Ethernet connectivity.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Diameter mm	Standards	Freq. MHz	Atten. db/100m	Next db	PSNext db	PSEIfext db	RL db
4 x 2 x AWG 24 UTP Cat.5E ENHANCED + 2 x 1,0m m² - Int. Jacket PVC flame retardant Gray - Ext. LSZH Blue UV-resistant - Insulation C-4											
44U-1BH		7,6	CU 0,51mm	10,3 x 6,6	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332-1-2	1	1,9	73,0	71,0	71,0	33,0
						4	3,9	64,0	62,0	59,0	34,0
						10	6,2	58,0	56,0	51,0	42,0
						16	7,9	55,0	53,0	46,0	42,0
						20	8,9	54,0	52,0	43,0	41,0
						31,2	11,2	51,0	49,0	39,0	35,0
Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m						62,5	16,0	47,0	45,0	33,0	32,0
						100	19,8	44,0	42,0	28,0	29,0
4 x 2 x AWG 24 UTP Cat.5E ENHANCED + 2 x 0,5m m² - Int. Jacket PVC flame retardant Gray - Ext. LSZH Blue - Insulation C-4 (U0=400V)											
44U-5BH		6,3	CU 0,51mm	8,8 x 6,1	ISO/IEC 11801 D EIA/TIA 568 C2 EN 50173 IEC 332-1-2	1	1,9	73,0	71,0	71,0	33,0
						4	3,9	64,0	62,0	59,0	34,0
						10	6,2	58,0	56,0	51,0	42,0
						16	7,9	55,0	53,0	46,0	42,0
						20	8,9	54,0	52,0	43,0	41,0
						31,2	11,2	51,0	49,0	39,0	35,0
Imped.: 100 ± 15 Ohm Velocity Ratio: 70% Capacity: 50 pF/m						62,5	16,0	47,0	45,0	33,0	32,0
						100	19,8	44,0	42,0	28,0	29,0

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

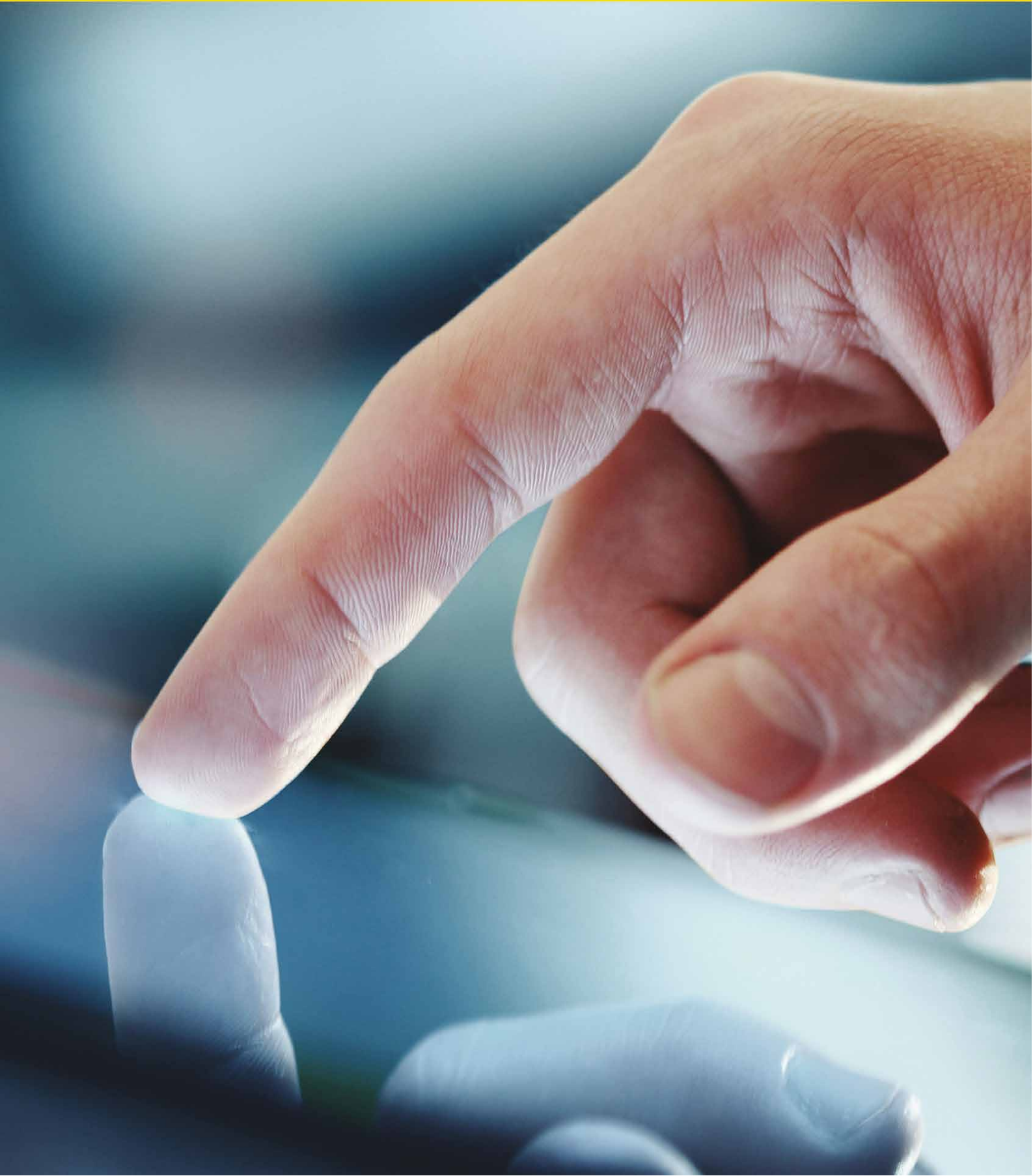
Video Surveillance and CCTV camera cables

Security systems, video-control, RGB, VGA, XGA, SXGA,UXGA, HDTV, LCD.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
CCS 36 + 2 x 0,50mm² - Int. Jacket PVC flame retardant White - Ext. PVC flame retardant Gray - Insulation C-4 (U0=400V)										
SA36CGR 	M100	5,3	CW 0,41mm	PEGJ 1,9	AL2 100% CuSn 72% 26 Ohm/Km	6,4	75 ± 5	85%	5	3,6
	B500		320 Ohm/km						10	5,1
	RL (dB)		Standards		Screening Efficiency > 85 db		Capacity 55 ± 3 pF/m			
	100-300MHz	> 28	EN 50117							
	300-900MHz	> 24	IEC 332-1-2							
	900-2150MHz	> 20	CEI UNEL 36762							
RG 59 B/U + 2x0,50mm² - Int. Jacket PVC flame retardant Black - Ext. PVC flame retardant Black - Insulation C-4 (U0=400V)										
TY595NE 	On request	9,5	CW 0,58mm	PE 3,7	CU 80% 14 Ohm/Km	7,5x10,5	75 ± 2	66%	50	7,9
			160 Ohm/km						230	18,6
	RL (dB)		Standards		Screening Efficiency > 50 db		Connectors ACBAB			
	100-300MHz	> 35	IEC 332-1-2		Capacity 67 ± 2 pF/m					
	300-900MHz	> 30	CEI UNEL 36762							
								470	26,8	
								860	36,5	
								1000	38,8	
RG 59 B/U + 2x0,75mm² - Int. Jacket PVC flame retardant Black - Ext. PVC flame retardant Black - Insulation C-4 (U0=400V)										
TY597NE 	M100	7	CW 0,58mm	PE 3,7	CU 80% 14 Ohm/Km	6,6x9,8	75 ± 2	66%	50	7,9
	B500		160 Ohm/km						230	18,6
	RL (dB)		Standards		Screening Efficiency > 50 db		Connectors BNC Type: ACBAB			
	100-300MHz	> 35	IEC 332-1-2		Capacity 67 ± 2 pF/m					
	300-900MHz	> 30	CEI UNEL 36762							
								470	26,8	
								860	36,5	
								1000	38,8	
RG 59 B/U + 2x1,00mm² - Int. Jacket PVC flame retardant Black - Ext. PVC flame retardant Black - Insulation C-4 (U0=400V)										
TY592NE 	M100	10	CW 0,58mm	PE 3,7	CU 80% 18 Ohm/Km	8,5x12,0	75 ± 2	66%	50	7,9
	B500		160 Ohm/km						230	18,6
	RL (dB)		Standards		Screening Efficiency > 50 db		Connectors ACBAB			
	100-300MHz	> 35	IEC 332-1-2		Capacity 67 ± 2 pF/m					
	300-900MHz	> 30	CEI UNEL 36762							
								470	26,8	
								860	36,5	
								1000	38,8	

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.









Home Automation



Home Automation cables - KNX systems

Cables for Building Automation. Suitable for BUS control and intelligent lighting management of lighting, cooling, heating and electrical appliances.

Suitable for cohabitation with power cables 450/750V to 0.6/1kV.









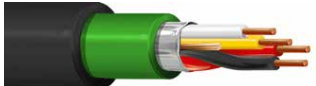

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
1x2x0,8mm EIB BUS LSZH KNX Certified - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC2BQVZ	B500 B1000	3,4	CU 0,8mm 34 Ohm/km		AL2 100%	5,1	100 ± 15			
				Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762	Capacity Mutual 70 pF/m					
										
1x2x0,8mm EIB BUS LSZH KNX Certified - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC2CKVZ	B500 B1000	3,4	CU 0,8mm 34 Ohm/km		AL2 100%	5,1	100 ± 15			
				Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762	Capacity Mutual 70 pF/m					
										
1x2x0,8mm BUS LSZH - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC2BZVZ	B500 B1000	2,6	CU 0,8mm 34 Ohm/km		AL2 100%	4,5	100 ± 15			
				Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762	Capacity Mutual 70 pF/m					
										
2 x 0,8mm BUS PVC - PVC flame retardant Green - Insulation C-4 (U0=400V)										
VC2BUVE	B500 B1000	2,6	CU 0,8mm 34 Ohm/km		AL2 100%	4,5	100 ± 15			
				Standards EN 60332-1-2 CEI-UNEL 36762	Capacity Mutual 70 pF/m					
										

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Home Automation cables - KNX systems

Cables for Building Automation. Suitable for BUS control and intelligent lighting management of lighting, cooling, heating and electrical appliances.






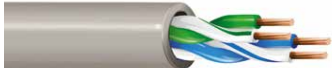



Suitable for cohabitation with power cables 450/750V to 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
2x2x0,8mm BUS LSZH - KNX Certified - Available in 2025 - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC4BQVZ	B500 B1000	4,8	CU 0,8mm 34 Ohm/km		AL2 100%	6,0	100 ± 15			
										
			Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762		Capacity Mutual 70 pF/m					
2x2x0,8mm BUS LSZH - KNX Certified - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC4CKVZ	B500 B1000	4,8	CU 0,8mm 34 Ohm/km		AL2 100%	6,0	100 ± 15			
										
			Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762		Capacity Mutual 70 pF/m					
2x2x0,8mm BUS LSZH - KNX Certified - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
VC4BZVZ	B500 B1000	4,6	CU 0,8mm 34 Ohm/km		AL2 100%	6,0	100 ± 15			
										
			Standards EN 60332-1-2 EN 60754-1-2 EN 61034-1/2 EN 50267-1-2-3 CEI UNEL 36762		Capacity Mutual 70 pF/m					
2 x 2 x 0,8mm BUS PVC - PVC flame retardant Green - Insulation C-4 (U0=400V)										
VC4BUVE	B500 B1000	3,9	CU 0,8mm 34 Ohm/km		AL2 100%	5,9	100 ± 15			
										
			Standards EN 60332-1-2 CEI-UNEL 36762		Capacity Mutual 70 pF/m					
2x2x0,8mm BUS D.G. KNX Certified - Int. Jacket Thermoplastic LSZH Green - Ext. PE Black UV resistant - Insulation C-4 (U0=400V)										
VC4BDPN	M100 B500 B1000	6,2	CU 0,8mm 34 Ohm/km		AL2 100%	8,0	100 ± 15			
										
			Standards EN 60332-1-2 CEI-UNEL 36762		Capacity Mutual 70 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for Industrial Automation

Cables for Profi, Field, Lon, Can, Mod, Inter - BUS and Dali.
 Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
 Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG 16 Flex UTP Interconn - Thermoplastic LSZH Verde - Insulation C-4 (U0=400V)										
16D7KVZ	M100	6,5	CU 2x1,5mm ² 12 Ohm/km			6,8				
										
 s1b,d1,a1			Standards EN 60332-1-2 EN 60754-1-2 EN 61034-2 CEI UNEL 36762		Capacity Mutual 110 pF/m					
1 x 2 x AWG 20 UTP Flex LSZH - Thermoplastic LSZH White - Insulation C-4 (U0=400V)										
20U7HBZ	On request	3,2	CU 2x0,5mm ² 39 Ohm/km	PE 1,7		5,0	100 ± 15		1 10 20 40	1,8 4,6 6,9 9,7
										
 s1b,d1,a1			Standards IEC 60332-1-2 IEC 754-2 CEI-UNEL 36762 EIA RS-485		Capacity Mutual 45 pF/m					
2 x 2 x AWG 24 FLEX UTP - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
24U7YGR	On request	2,6	CU 7x0,2mm 79 Ohm/km	PE 1,0		4,3	100 ± 15		1 4 10 16	2,7 5,6 9,0 13,1
										
			Standards IEC 60332-1 CEI-UNEL 36762		Capacity Mutual 45 pF/m					
1 x 2 x AWG 24 FLEX UTP - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
14U7YGR	On request	1,3	CU 2x0,22mm ² 79 Ohm/km	PE 1,0		2,8	100 ± 15		1 4 10 16	2,6 5,5 8,9 12,8
										
			Standards IEC 60332-1 CEI 20-22 III CEI-UNEL 36762		Capacity Mutual 45 pF/m					



















REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables



Serial BUS cables for CANBUS and MODBUS applications
















Cables compliant with EIA RS-485 for CANBUS and MODBUS applications.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG 24 Flex S(FTP) LSZH RS485 ModBus - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
14S7KVZ	M100 B500	4,6	CU 7x0,22mm 79 Ohm/km		AL/Pet 100% CuSn > 85%	5,7	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 IEC 754-1/2 IEC 61034 CEI-UNEL 36762 EIA RS-485		Capacity Mutual 43 pF/m					
1 x 2 x AWG 24 Flex S(FTP) RS485 ModBus - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
14S7YGR	M100 B500 B1000	4	CU 7x0,20mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	5,5	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 43 pF/m					
1 x 2 x AWG 24 S(FTP) Flex RS485 ModBus Double Jackets - Int. Jacket PVC flame retardant Gray - Ext. PE UV-resistant Black - Insulation C-4 (U0=400V)										
14S7DPN	M100 B500 B1000	5,4	CU 7x0,22mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	7,0	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 43 pF/m					
2 x 2 x AWG 24 Flex S(FTP) LSZH RS485 ModBus - Thermoplastic LSZH Green - Insulation C-4 (U0=400V)										
24S7KVZ	M100 B500	7,6	CU 7x0,22mm 79 Ohm/km		AL/Pet 100% CuSn > 85%	8,0	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards CEI EN 60332-1-2 IEC 754-1/2 IEC 61034 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 43 pF/m					
2 x 2 x AWG 24 Flex S(FTP) RS485 ModBus - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
24S7YGR	M100 B500 B1000	9	CU 7x0,20mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	7,2	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 43 pF/m					
2 x 2 x AWG 24 Flex S(FTP) RS485 ModBus D.G. - Int. Jacket PVC flame retardant Gray - Ext. PE UV-resistant Black - Insulation C-4 (U0=400V)										
24S7DPN	M100 B500 B1000	11	CU 7x0,22mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	10,0	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 43 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for CANBUS and MODBUS applications













Cables compliant with EIA RS-485 for CANBUS and MODBUS applications.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG22 Flex S(FTP) RS485 CanBUS - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
12S7YGO	M100 B500	5	CuSn 7x0,25mm 50 Ohm/km	PEE 2,35	AL/Pet 100% CuSn 65%	7,0	120 ± 15 78%		1	1,65
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 36 pF/m					
1 x 2 x AWG22 + 1 x AWG22 Flex S(FTP) RS485 CanBUS - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
15S7YGO	M100 B500	6,3	CuSn 7x0,25mm 50 Ohm/km	PEE 2,35	AL/Pet 100% CuSn 65%	7,8	120 ± 15 78%		1	1,65
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 36 pF/m					
2 x 2 x AWG22 Flex S(FTP) RS485 CanBUS - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
22S7YGO	M100 B500	7	CuSn 7x0,25mm 50 Ohm/km	PEE 2,35	AL/Pet 100% CuSn 65%	8,6	120 ± 15 78%		1	1,65
										
 			Standards IEC 60332-1-2 CEI 20-35 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 36 pF/m					
3 x 2 x AWG 24 Flex S(FTP) RS485 ModBUS - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
34S7YGR	On request	5,5	CU 7x0,20mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	9,0	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI 20-22 III CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 46 pF/m					
4 x 2 x AWG 24 Flex S(FTP) RS485 ModBUS - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
44S-YGR	On request	6	CU 7x0,20mm 79 Ohm/km	PE 1,6	AL/Pet 100% CuSn 85%	9,3	120 ± 15 68%		1 4 10 16	2 3,8 6,4 9,0
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Screening Efficiency > 85 db Capacity Mutual 46 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for RS232 - RS485 - RS422 systems
















Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
FI 2 x AWG 24 Flex Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
FI-02GO	M100 B500 B1000	2,2	CUSn 2x0,22mm ² 80 Ohm/km	PVC 1,1	AL2 100%	4,0	80 ± 15			
										
 			Standards IEC 60332-1-2 CEI 20-22 II CEI-UNEL 36762 EIA RS-232				Capacity Mutual 100 pF/m			
FI 4 x AWG 24 Flex Interconn RS232 - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
FI-42GO	On request	3	CUSn 4x0,22mm ² 80 Ohm/km	PVC 1,1	AL2 100%	5,3	80 ± 15			
										
 			Standards IEC 60332-1-2 CEI 20-22 II CEI-UNEL 36762 EIA RS-232				Capacity Mutual 105 pF/m			
FI 6 x AWG 24 Flex Interconn RS232 - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
FI-62GO	On request	3,4	CUSn 6x0,22mm ² 80 Ohm/km	PVC 1,1	AL2 100%	5,0	80 ± 15			
										
 			Standards IEC 60332-1-2 CEI 20-22 II CEI-UNEL 36762 EIA RS-232				Capacity Mutual 105 pF/m			
FI 8 x AWG 24 Flex Interconn RS232 - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
FI-82GO	On request	4,6	CUSn 8x0,22mm ² 80 Ohm/km	PVC 1,1	AL2 100%	5,8	80 ± 15			
										
 			Standards IEC 60332-1-2 CEI 20-22 II CEI-UNEL 36762 EIA RS-232				Capacity Mutual 105 pF/m			

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for RS232 - RS485 - RS422 systems

Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.




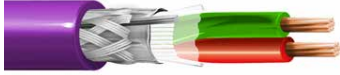
Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
2 X 2 x AWG 24 Flex FTP Interconn - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
24F7YGR 	M100	2,9	CU	PE 1,0	2xAl/Pet 100%	5,0	100 ± 15 68%		1	2,7
	B500		7x0,20mm						4	5,6
	B1000		79 Ohm/km						10	9,0
									16	13,1
			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS232/422		Screening Efficiency > 75 db Capacity Mutual 45 pF/m					
2 X 2 x AWG 24 Flex S(FTP) RS232/422 - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
24S7YGR 	On request	4,2	CUSn	PE 1,03	2x Al/Pet 100%	5,8	100 ± 15 78%		1	2,7
			7x0,20mm						4	5,6
			79 Ohm/km						10	9,0
									16	13,1
			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS232/422		Capacity Mutual 42 pF/m					
3 x 2 x AWG 24 Flex FTP Interconn - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
34F7YGO 	On request	4,1	CUSn	PVC 1,15	Al/Pet 100%	5,5	80 ± 15 68%			
			7x0,20mm							
			79 Ohm/km							
			Standards IEC 60332-1-2 CEI-UNEL 36762		Capacity Mutual 100 pF/m					
6 x 2 x AWG 24 Flex FTP RS232 - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
64F7YGO 	On request	6,7	CUSn	PVC 1,1	Al/Pet 100%	7,3	75 ± 10 60%			
			7x0,20mm							
			79 Ohm/km							
			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-232		Capacity Mutual 90 pF/m					
2 x 2 x AWG 28 S(FTP) Flex - PVC flame retardant gorgio - Insulation C-4 (U0=400V)										
28S7YGO 	M100	2	CuSn	PE 0,9	Al/Pet 100%	5,2	120 ± 15			
	B500		7x0,12mm						4	
	B1000		180 Ohm/km							
			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Capacity Mutual 37 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for PROFIBUS and PROFINET applications

Cables for PROFIBUS and PROFINET networks.






Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG 18 Flex FTP Profibus PA - PVC flame retardant Blue - Insulation C-4 (U0=400V)										
18F7YBL	M100	6,7	CuSn 7x0,40mm 19,2 Ohm/km	PE 2,25	AL/Pet 100%	6,7	100 ± 15 68%	0,039	4	0,262
	B500								10	2,1
	B1000								16	4,3
									20	4,7
									31,3	6,0
									62,5	8,5
			Standards		Screening Efficiency > 85 db					
			IEC 60332-1-2		Capacity Mutual 60 pF/m					
			CEI-UNEL 36762							
E_{ca}										
1 x 2 x AWG 18 Flex FTP LSZH Profibus PA - Termoplastico LSZH blu o arancione - Insulation C-4 (U0=400V)										
18F7HBH	Su richiesta	7,5	CuSn 7x0,40mm 19,2 Ohm/km	PE 2,25	AL/Pet 100%	7,5	100 ± 15 68%	0,039	4	0,262
									10	2,1
									16	4,3
									20	4,7
									31,3	6,0
									62,5	8,5
			Standards		Screening Efficiency > 85 db					
			IEC 60332-1-2		Capacity Mutual 78 pF/m					
			IEC 754-1-2							
			IEC 61034							
			CEI-UNEL 36762							
E_{ca}										
1 x 2 x AWG 22 S(FTP) Profibus DP - PVC flame retardant Violet - Insulation C-4 (U0=400V)										
12S1YVI	M100	6,6	CU 0,65mm 55 Ohm/km	PEE 2,5	AL/Pet 100% CuSn 65%	8,0	150 ± 15 74%	1	4	0,3
	B500								10	2,1
	B1000								16	3,3
									20	4,3
									31,3	6,0
									62,5	8,5
			Standards		Capacity Mutual 30 pF/m					
			IEC 60332-1-2							
			EN50170							
			CEI-UNEL 36762							
E_{ca}										
1 x 2 x AWG 22 S(FTP) LSZH Profibus DP - Thermoplastic LSZH Gray o Viola - Insulation C-4 (U0=400V)										
12S1HVH	M100	6,1	CU 0,65mm 55 Ohm/km	PEE 2,5	AL/Pet 100% CuSn 65%	8,0	150 ± 15 68%	1	4	0,3
	B500								10	2,1
									16	3,3
									20	4,3
									31,3	6,0
									62,5	8,5
			Standards		Screening Efficiency > 85 db					
			IEC 60332-1-2		Capacity Mutual 30 pF/m					
			IEC 754-2							
			EN50170							
			CEI-UNEL 36762							
F_{ca}										

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for PROFIBUS and PROFINET applications



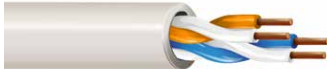



Cables for PROFIBUS and PROFINET networks.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
2 x 2 x AWG 22/1 STP LSZH P-NET A Cca - Int. Jacket LSZH White - Ext. LSZH Green - Insulation C-4 (U0=400V)										
PNETKVZ	Da definire	6,6	CU 0,64mm 53 Ohm/km		AL/Pet 100% CuSn 85%	6,5	100 ± 15	70%	10 100	5,2 19,5
										
C_{ca} sta,d1,a1			Standards IEC60332-1-2 EN60811-2-1 IEC 11801 CAT5e EIA/TIA 568		Capacity 50 pF/m					
2 x 2 x AWG 22/1 STP PVC P-NET A - Int. Jacket PVC AF White - Ext. PVC AF Green - Insulation C-4 (U0=400V)										
PNETYVE	Da definire	6,2	CU 0,64mm 53 Ohm/km		AL/Pet 100% CuSn 85%	6,5	100 ± 15	70%	10 100	5,2 19,5
										
E_{ca}			Standards IEC60332-1-2 EN60811-2-1 IEC 11801 CAT5e EIA/TIA 568		Capacity 50 pF/m					
1x2 AWG 22 S(FTP) Profibus DP - PVC oil-proof flame retardant Violet UV-resistant - Insulation C-4 (U0=400V)										
PRO-YVI°	On request	6,4	CU 0,65mm 55 Ohm/km	PEE 2,5	AL/Pet 100% CuSn 65%	8,0	150 ± 15	68%	1 4 10 16 20 31,3 62,5	0,3 2,1 3,3 4,3 4,7 6,0 8,5
										
F_{ca}	RL (dB) 1-10 MHz >20 10-16 MHz >20		Standards EN 50170-2-3 IEC 332-3-24 Cat.C IEC60881-2-1 (4H/70°C) CEI UNEL 36762		Screening Efficiency > 85 db Capacity Mutual 30 pF/m					
1x2xAWG 22/1 Profibus DP Double Jackets - Int. Jacket PVC AF Violet - Ext. PE Black - Insulation C-4 (U0=400V)										
PROADPN°	On request	10,8	CU 0,65mm 53 Ohm/km	PEE 2,5	AL/Pet 100% CuSn 65%	10,8	150 ± 15		1 4 10 16 20 31,3 62,5	0,3 2,1 3,3 4,3 4,7 6,0 8,5
										
F_{ca} 			Standards EN 50170-2-3 IEC 332-1-2 RS485 CEI UNEL 36762		Capacity Mutual 30 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for LONWORKS and TWINAX applications










Cables for LONWORKS and TWINAX applications.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG 22 UTP LonWorks LSZH - Thermoplastic LSZH M1 quality White - Insulation C-4 (U0=400V)										
12U1HBZ	M100 B500	2	CU 0,65mm	PE 1,3		4,2	100 ± 15		1	1.5
			52 Ohm/km						4	3.1
									10	4.9
									16	6.3
									20	6.9
E_{ca}			Standards EN 60332-1-2 IEC 754-2 CEI-UNEL 36762		Capacity Mutual 40 pF/m					
1 x 2 x AWG 22 FTP LonWorks - Thermoplastic LSZH White - Insulation C-4 (U0=400V)										
12F1HBZ	M100 B500	2,7	CU 0,65mm	PE 1,4	AL/Pet 100%	4,2	100 ± 15		1	2.0
			52 Ohm/km						4	3.6
									10	5.5
									16	7.0
									20	7.8
E_{ca}			Standards IEC 60332-1-2 IEC 754-1/2 IEC 61034 CEI-UNEL 36762		Capacity Mutual 40 pF/m					
2 x 2 x AWG 22 UTP LonWorks LSZH - Thermoplastic LSZH M1 quality White - Insulation C-4 (U0=400V)										
22U1HBZ	On request	3,5	CU 0,65mm	PE 1,3		5,2	100 ± 15		1	1.5
			52 Ohm/km						4	3.1
									10	4.9
									16	6.3
									20	6.9
F_{ca}			Standards IEC 60332-3C IEC 754-2 CEI-UNEL 36762		Capacity Mutual 40 pF/m					
2 x 2 x AWG 22 FTP LonWorks - Thermoplastic LSZH White - Insulation C-4 (U0=400V)										
22F1HBZ	M100 B500	3,8	CU 0,65mm	PE 1,3	AL/Pet 100%	6,4	100 ± 15		1	2.0
			52 Ohm/km						4	3.6
									10	5.5
									16	7.0
									20	7.8
E_{ca}			Standards EN 60332-1-2 EN 60754-1-2 EN 61034-2 CEI-UNEL 36762		Capacity Mutual 40 pF/m					
1 x 2 x AWG20 Flex S(FTP) TWINAX - PVC flame retardant Blue - Insulation C-4 (U0=400V)										
10S7YBL	On request	3,6	CuSn	PE 1,9	AL/Pet 100%	5,4	78 ± 15	68%	1	1,9
			7x0,32mm		CuSn 60%				10	6,8
			32 Ohm/km						100	24,5
									400	52,5
F_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762		Screening Efficiency > 85 db Capacity Mutual 64 pF/m					
TWINAX 7362211 - Int. Jacket PE - Ext. PVC flame retardant Black - Insulation C-4 (U0=400V)										
COTW1NE	On request	8,1	CuSn	PE 2,0	CuSn 87%	8,3	107 ± 7	62%	1	1
			7x0,32mm						5	2,5
			36 Ohm/km						10	3,6
									20	5,5
									50	8,5
									100	12,2
E_{ca}			Standards IBM Standards CEI UNEL 36762		Screening Efficiency > 85 db Capacity 54 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for Industrial Automation





Cables for Profi, Field, Lon, Can, Mod, Inter - BUS and Dali.
Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
1 x 2 x AWG 16 Flex FTP LSZH Interconn - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
16F7HGZ	M100 B500	7,6	CuSn 19x0,30mm 14,7 Ohm/km	PE 2,9	AL/Pet 100%	7,5	65 ± 15			
										
 			Standards IEC 60332-1-2 IEC 754-2 CEI-UNEL 36762			Capacity Mutual 70 pF/m				
1 x 2 x AWG 16 Flex UTP LSZH Interconn - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
16U7HGZ	M100 B500 B1000	5,6	CuSn 19x0,30mm 14,7 Ohm/km	PE 2,9		7,6	65 ± 15			
										
 			Standards IEC 60332-1-2 IEC 754-1-2 IEC 61034 CEI-UNEL 36762			Capacity Mutual 68 pF/m				
1 x 2 x AWG 16 Flex UTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
16U7YGO	M100 B500	5,6	CuSn 19x0,30mm 14,7 Ohm/km	PE 2,9		7,6	65 ± 15			
										
			Standards IEC 60332-1-2 CEI-UNEL 36762			Capacity Mutual 68 pF/m				
1 x 2 x AWG 16 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
16F7YGO	M100 B500	7,6	CuSn 19x0,30mm 14,7 Ohm/km	PE 2,9	AL/Pet 100%	7,6	65 ± 15			
										
			Standards IEC 60332-1-2 CEI-UNEL 36762			Capacity Mutual 70 pF/m				
1 x 2 x AWG 18 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
87F7YGO	On request	4,5	CuSn 7x0,40mm 20 Ohm/km	PE 2,2	AL/Pet 100%	6,0	57 ± 15			
										
			Standards IEC 60332-1-2 CEI-UNEL 36762 ITC Standards			Capacity Mutual 80 pF/m				
1 x 2 x AWG 18 FLEX FTP Interconn LSZH - Thermoplastic LSZH grigio - Insulation C-4 (U0=400V)										
87F7HGZ	On request	4,5	CuSn 7x0,40 mm 20 Ohm/km	PE 2,2	AL/Pet 100%	6,2	57 ± 15			
										
 			Standards IEC 60332-1-2 CEI-UNEL 36762			Capacity Mutual 80 pF/m				

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for Industrial Automation







Cables for Profi, Field, Lon, Can, Mod, Inter - BUS and Dali.
Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
3x2xAWG18 FTP Interconn - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
38FFYGR	On request	12,3	CuSn 7x0,40mm 19,2 Ohm/km	PE 2,3	3x AL/Pet 100%	10,1	50 ± 15	66%		
										
F_{ca}			Standards IEC 332-1-2 CEI-UNEL 36762				Capacity Mutual 90 pF/m			
6x2xAWG18 FTP Interconn - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
68FFYGR	On request	25,5	CuSn 7x0,40mm 19,2 Ohm/km	PE 2,3	6x Al/PET 100%	13,5	50 ± 15	66%		
										
F_{ca}			Standards IEC 332-1-2 CEI-UNEL 36762				Capacity Mutual 90 pF/m			
1 X 2 AWG 20 FLEX FTP - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
10FFYGR	On request	4,4	CU 16x0,20mm 39 Ohm/km	PVC 1,57	Al/Pet 100%	4,7	48			
										
F_{ca}			Standards ISO/IEC 11801 IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 110 pF/m			
1 x 2 x AWG 20 Flex UTP LSZH Interconn - Termoplastico Gray - Insulation C-4 (U0=400V)										
10U7HGZ	On request	2,3	CuSn 7x0,32mm 32 Ohm/km	PE 1,9		5,0	56 ± 15			
										
E_{ca}	LOW SMOKE		Standards IEC 60332-3C IEC 754-2 CEI-UNEL 36762				Capacity Mutual 80 pF/m			
1 x 2 x AWG 20 Flex UTP Interconn - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
10U7YGO	On request	2,3	CuSn 7x0,32mm 32 Ohm/km	PE 1,9		5,0	56 ± 15			
										
F_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 80 pF/m			
1 x 2 x AWG 20 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
10F7YGO	M100 B500	3,2	CuSn 7x0,32mm 32 Ohm/km	PE 1,9	Al/Pet 100%	5,2	56 ± 15			
										
E_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 65 pF/m			

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for Industrial Automation







Cables for Profi, Field, Lon, Can, Mod, Inter - BUS and Dali.
 Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
 Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel.Ratio	Freq. MHz	Atten. db/100m
2 X 2 AWG 20 FLEX FTP - PVC flame retardant Gray - Insulation C-4 (U0=400V)										
20FFYGR	On request	5,6	Cu 16x0,20mm 39 Ohm/km		2x Al/Pet 100%	6,8	40			
										
F_{ca}			Standards ISO/IEC 11801 IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual max 110 pF/m			
1 x 2 x AWG 22 Flex FTP LSZH Interconn - Thermoplastic LSZH M1 quality Gray - Insulation C-4 (U0=400V)										
12F7HGZ	M100 B500	2,4	CuSn 7x0,25 mm 50 Ohm/km	PE 1,3	AL/Pet 100%	4,3	64 ± 15			
										
F_{ca}	LOW SMOKE		Standards IEC 60332-1-2 IEC 754-2 CEI-UNEL 36762				Capacity Mutual 70 pF/m			
1 x 2 x AWG 22 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
12F7YGO	M100 B500	2,3	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	AL/Pet 100%	4,3	64 ± 15			
										
E_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 70 pF/m			
3 x AWG 22 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
23F7YGO	On request	2,8	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	AL/Pet 100%	4,4				
										
E_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 75 pF/m			
2 x 2 x AWG22 Flex FTP LSZH Interconn - Thermoplastic LSZH M1 quality Gray - Insulation C-4 (U0=400V)										
22F7HGZ	B500 1000	2,8	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	2x AL/Pet 100%	6,2	45 ± 15	66%		
										
F_{ca}	LOW SMOKE		Standards IEC 60332-1-2 IEC 754-1/2 IEC 61034 CEI-UNEL 36762				Capacity Mutual 80 pF/m			
2 x 2 x AWG22 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
22F7YGO	M100 B500	2,8	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	2x AL/Pet 100%	6,2	45 ± 15	66%		
										
E_{ca}			Standards IEC 60332-1-2 CEI-UNEL 36762				Capacity Mutual 95 pF/m			

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Serial BUS cables for Industrial Automation

Cables for Profi, Field, Lon, Can, Mod, Inter - BUS and Dali.
 Compliant with most common protocols like EIA RS-232, EIA RS-422, EIA RS-485.
 Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Part Num.	Packaging	Weight Kg/100m	Conductor	Dielectric mm	Shielding	Diameter mm	Imped. Ohm	Vel. Ratio	Freq. MHz	Atten. db/100m
3 x 2 x AWG 22 Flex FTP LSZH Interconn - Thermoplastic LSZH Gray - Insulation C-4 (U0=400V)										
32F7HGZ	On request	6	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	3x AL/Pet 100% 6,7	6,7	50 ± 15	66%		
										
			Standards IEC 60332-1-2 IEC 754-2 CEI-UNEL 36762 EIA RS-485		Capacity Mutual 70 pF/m					
3 x 2 x AWG 22 Flex FTP Interconn - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
32F7YGO	B500 B1000	6	CuSn 7x0,25mm 50 Ohm/km	PE 1,3	3x AL/Pet 100% 6,7	6,7	50 ± 15	66%		
										
			Standards IEC 60332-1-2 CEI-UNEL 36762 EIA RS-485		Capacity Mutual 70 pF/m					
1 x 2 x AWG24 +1 x 2 AWG 22 FLEX (STP) RS485 Dev - PVC flame retardant Gray oil-proof - Insulation C-4 (U0=400V)										
42S7YGO	M100 B500 1000	5,5	CU 7x0,20mm 79 Ohm/km	PE 1,58 / PVC 1,5	2x Al/Pet 100% CuSn 65%	7,3	120 ± 10	75%	1 4 10 16	2 3,8 6,4 9,0
										
			Standards IEC 332-1-2 ITC Standards RS485 Standard CEI UNEL 36762		Capacity Mutual 40 pF/m					

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

FROR and FEOR cables

for gate automation, intercoms, remote controls and building automation



Flexible intercom cables FS290M16 (GK type) Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
GK-25VZ	CU 2x0,5mm ² Coded colors DIN 47100	39	4,5	2,8	Mutual max 80	M100
GK-35VZ	CU 3x0,5mm ² Coded colors DIN 47100	39	4,7	4,5	Mutual 120	M100
GK-45VZ	CU 4x0,5mm ² Coded colors DIN 47100	39	5,4	4,4	Mutual 120	M100
GK-65VZ	CU 6x0,5mm ² Coded colors DIN 47100	39	6,3	5,3	Mutual 120	M100
GK-85VZ	CU 8x0,5mm ² Coded colors DIN 47100	39	7,0	8,1	Mutual 120	M100
GK105VZ	CU 10x0,5mm ² Coded colors DIN 47100	39	7,8	8,6	Mutual 120	M100
GK125VZ	CU 12x0,5mm ² Coded colors DIN 47100	39	8,3	11	Mutual 120	M100
GK145VZ	CU 14x0,5mm ² Coded colors DIN 47100	39	8,6	12	Mutual 120	M100
GK165VZ	CU 16x0,5mm ² Coded colors DIN 47100	39	9,1	13,5	Mutual 120	M100
GK185VZ	CU 18x0,5mm ² Coded colors DIN 47100	39	9,6	14,4	Mutual 120	M100
GK205VZ	CU 20x0,5mm ² Coded colors DIN 47100	39	10,8	18	Mutual 120	M100
GK-27VZ	CU 2x0,75mm ² Coded colors DIN 47100	26	5,1	4,5	Mutual 100	M100
GK-37VZ	CU 3x0,75mm ² Coded colors DIN 47100	26	5,3	5,1	Mutual 120	M100
GK-47VZ	CU 4x0,75mm ² Coded colors DIN 47100	26	6,0	6,4	Mutual 110	M100
GK-21VZ	CU 2x1mm ² Coded colors DIN 47100	19	6,0	5,3	Mutual 73	M100
GK-41VZ	CU 4x1mm ² Coded colors DIN 47100	19	6,6	7,3	Mutual 130	M100
GK-51VZ	CU 5x1mm ² Coded colors DIN 47100	19	7,6	8,8	Mutual 130	M100
GK-2PVZ	CU 2x1,5mm ² Coded colors DIN 47100	12	6,9	6,5	Mutual 110	M100
GK-2QVZ	CU 2x2,5mm ² Coded colors DIN 47100	7,8	8,0	9	Mutual 150	M100

Applications

Remote control, signalling, control and measurement, intercom and industrial monitoring. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Insulation resistance at 20°C

Min 200 MOhm/Km

External Jacket

Thermoplastic LSZH Green

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Cca-s1b,d1,a1

Standards

EN 60332-1-2
EN 60754-1-2
EN 61034-2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Flexible intercom cables FROR (FG type) - Eca



Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
FG-25GR	CU 2x0,5mm ² Coded colors DIN 47100	39	4,7	2,8	Mutual 120	M100
FG-35GR	CU 3x0,5mm ² Coded colors DIN 47100	39	4,7	3,5	Mutual 120	M100
FG-45GR	CU 4x0,5mm ² Coded colors DIN 47100	39	5,4	3,7	Mutual 120	M100
FG-65GR	CU 6x0,5mm ² Coded colors DIN 47100	39	6,6	6,8	Mutual 120	M100
FG-85GR	CU 8x0,5mm ² Coded colors DIN 47100	39	7,1	8,4	Mutual 120	M100
FG105GR	CU 10x0,5mm ² Coded colors DIN 47100	39	8,1	10,1	Mutual 120	M100
FG125GR	CU 12x0,5mm ² Coded colors DIN 47100	39	8,3	11,6	Mutual 120	M100
FG145GR	CU 14x0,5mm ² Coded colors DIN 47100	39	8,8	13,1	Mutual 120	M100
FG165GR	CU 16x0,5mm ² Coded colors DIN 47100	39	9,1	15,6	Mutual 120	M100
FG185GR	CU 18x0,5mm ² Coded colors DIN 47100	39	10	16,4	Mutual 120	M100
FG205GR	CU 20x0,5mm ² Coded colors DIN 47100	39	11	19,5	Mutual 120	M100
FG-27GR	CU 2x0,75mm ² Coded colors DIN 47100	26	5,0	3,4	Mutual 100	M100
FG-37GR	CU 3x0,75mm ² Coded colors DIN 47100	26	5,2	4,4	Mutual 120	M100
FG-47GR	CU 4x0,75mm ² Coded colors DIN 47100	26	6,0	5,7	Mutual 120	M100
FG-21GR	CU 2x1mm ² Coded colors DIN 47100	19	6,0	4,7	Mutual 130	M100
FG-41GR	CU 4x1mm ² Coded colors DIN 47100	19	7,2	7,7	Mutual 130	M100
FG-51GR	CU 5x1mm ² Coded colors DIN 47100	19	6,8	5	Mutual 130	M100
FG-2PGR	CU 2x1,5mm ² Coded colors DIN 47100	12	6,9	6	Mutual 140	M100 B1000
FG-2QGR	CU 2x2,5mm ² Coded colors DIN 47100	7,8	7,7	8,3	Mutual 150	M100

Applications

Remote control, signalling, control and measurement, intercom and industrial monitoring. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

External Jacket

PVC flame retardant Gray

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

IEC 332-1-2
VDE 0812
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Flexible intercom cables FROR (RO type) - Eca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
RO502GS	CU 2x0,5mm ² DIN 47100	39	4,4	2,5	Mutual 120	M100
RO504GS	CU 4x0,5mm ² DIN 47100	39	5,2	3,2	Mutual 120	M100
RO506GS	CU 6x0,5mm ² DIN 47100	39	6,3	6,3	Mutual 120	M100
RO508GS	CU 8x0,5mm ² DIN 47100	39	6,8	8	Mutual 120	M100
RO510GS	CU 10x0,5mm ² DIN 47100	39	7,8	9,8	Mutual 120	M100
RO512GS	CU 12x0,5mm ² DIN 47100	39	7,7	11,2	Mutual 120	M100
RO516GS	CU 16x0,5mm ² DIN 47100	39	8,9	15	Mutual 120	M100
RO520GS	CU 20x0,5mm ² DIN 47100	39	10,2	19	Mutual 120	M100

Applications

Remote control, signalling, control and measurement, intercom and industrial monitoring. Cables for permanent laying, not suitable as power cables.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

External Jacket

PVC flame retardant

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

IEC 332-1-2
VDE 0812
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

FEOR cables for Automatic Gates (CA type) - Eca



Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
CA-25BL	CU 2x0,50 mm ² Red, Black	39	5,0	3,1	Mutual 60	M100 B500 1000
CA-45BL	CU 4x0,50 mm ² Red, Black, White, Brown	39	5,8	4,8	Mutual 60	M100 B500 1000
CA-65BL	CU 6x0,50 mm ² Red, Black, DIN 47100	39	6,7	6,8	Mutual 60	M100 B500 1000
CA210BL	CU 2x1,00 mm ² Red, Black	19	6,8	4,8	Mutual 70	M100 B500 1000
CA410BL	CU 4x1,00 mm ² Red, Black, White, Brown	19	7,5	8,1	Mutual 70	M100 B500 1000
CA610BL	CU 6x1,00 mm ² Red, Black, DIN 47100	19	8,5	11	Mutual 70	On request
CA110AN	CU 10x1,00 mm ² Red, Black, DIN 47100	19	13,5	27	Mutual 70	On request
CA215BL	CU 2x1,50 mm ² Red, Black	12	7,3	6,5	Mutual 80	M100 B500
CA415BL	CU 4x1,50 mm ² Red, Black, White, Brown	12	8,4	10,7	Mutual 80	On request
CA615BL	CU 6x1,50 mm ² Red, Black, DIN 47100	12	9,5	14,4	Mutual 80	On request
CA225BL	CU 2x2,50 mm ² Red, Black	8	8,4	9,1	Mutual 100	On request
CA-3PBL	CU 3x1,50 mm ² Blue, Brown, Yellow /Green	12	7,8	10,5		On request

Applications

Cables with PE insulation, low - capacity, for gate automation, intercom, Building Automation BUS.

Suitable for outdoor, underground installation in the pipe or conduit even in humid environments. Not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PE

Insulation resistance at 20°C

Min 200 MOhm/Km



External Jacket

PVC flame retardant Blue

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

4,5 KV

Temperature rating

-40 / +80 °C



Notes

Suitable for outdoor installation in conduit and in damp environments.

CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

IEC 332-1-2
EN 60228
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.



Shielded cables

for data and control transmission



LSZH shielded cables for data transmission FS29OHH2M16 (FK type) Cca-s1b,d1,a1

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Coded Colors
FK-25VZ	CU 2x0,5mm ²	39	5,1	3,1	Colori secondo DIN 47100
FK-35VZ	CU 3x0,5mm ²	39	5,1	3,8	Colori secondo DIN 47100
FK-45VZ	CU 4x0,5mm ²	39	5,6	4,7	Colori secondo DIN 47100
FK-55VZ	CU 5x0,5mm ²	39	5,8	5,8	Colori secondo DIN 47100
FK-65VZ	CU 6x0,5mm ²	39	6,4	6,3	Colori secondo DIN 47100
FK-75VZ	CU 7x0,5mm ²	39	6,2	7	Colori secondo DIN 47100
FK-85VZ	CU 8x0,5mm ²	39	7,0	8,5	Colori secondo DIN 47100
FK-27VZ	CU 2x0,75mm ²	26	5,3	3,7	Colori secondo DIN 47100
FK-37VZ	CU 3x0,75mm ²	26	5,3	5	Colori secondo DIN 47100
FK-47VZ	CU 4x0,75mm ²	26	6,1	6,8	Colori secondo DIN 47100
FK-57VZ	CU 5x0,75mm ²	26	6,3	7,6	Colori secondo DIN 47100
FK-67VZ	CU 6x0,75mm ²	26	7,2	8,7	Colori secondo DIN 47100
FK-77VZ	CU 7x0,75mm ²	26	6,7	10	Colori secondo DIN 47100
FK-87VZ	CU 8x0,75mm ²	26	7,3	10,7	Colori secondo DIN 47100
FK315VZ	CU 3x1,5mm ²	12	7,1	9	Colori secondo DIN 47100
FK-21VZ	CU 2x1mm ²	19	6,1	5,2	Colori secondo DIN 47100
FK-31VZ	CU 3x1mm ²	19	6,3	6,5	Colori secondo DIN 47100
FK-41VZ	CU 4x1mm ²	19	7,2	8,7	Colori secondo DIN 47100
FK-51VZ	CU 5x1mm ²	19	7,9	10,6	Colori secondo DIN 47100
FK-61VZ	CU 6x1mm ²	19	8,3	11,8	Colori secondo DIN 47100
FK215VZ	CU 2x1,5mm ²	12	7,1	6,6	Colori secondo DIN 47100
FK415VZ	CU 4x1,5mm ²	12	8,1	12	Colori secondo DIN 47100
FK225VZ	CU 2x2,5mm ²	8	8,3	9,5	Colori secondo DIN 47100
FK325VZ	CU 3x2,5mm ²	8	7,8	12,5	Colori secondo DIN 47100

Applications

Data detection and transmission, monitoring and control systems, measurement and monitoring systems, computer network and peripheral interface interconnections. Important protection against electromagnetic interference and external disturbance. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

Thermoplastic LSZH

Capacity

Mutual 120 pF/m

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %
CU > 65 %

External Jacket

Thermoplastic LSZH Green

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR fire reaction class
acc. to EN 50575: Cca-s1b,d1,a1

Standards

EN 60332-1-2
EN 60754-1-2
EN 61034-2
CEI UNEL 36762

Packaging

M100

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Data transmission shielded cables FR2OHH2R16 (CC type) – Cca,s3,d1,a3

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Coded Colors
CC-62GR	CU 6x 0,22mm ²	89	5,2	4,4	Colori secondo DIN 47100
CC-82GR	CU 8x 0,22mm ²	89	5,6	5	Colori secondo DIN 47100
CC102GR	CU 10x 0,22mm ²	89	6,3	5,2	Colori secondo DIN 47100
CC122GR	CU 12x 0,22mm ²	89	6,5	8,8	Colori secondo DIN 47100
CC162GR	CU 16x 0,22mm ²	89	7,1	9,3	Colori secondo DIN 47100
CC-43GR	CU 4x 0,35mm ²	50	5,4	3,9	Colori secondo DIN 47100
CC-53GR	CU 5x 0,35mm ²	50	5,7	4,8	Colori secondo DIN 47100
CC-63GR	CU 6x 0,35mm ²	50	6,2	5,3	Colori secondo DIN 47100
CC-83GR	CU 8x 0,35mm ²	50	6,7	7,6	Colori secondo DIN 47100
CC-25GR	CU 2x 0,5mm ²	39	5,1	3,2	Colori secondo DIN 47100
CC-35GR	CU 3x 0,5mm ²	39	5,1	4,2	Colori secondo DIN 47100
CC-45GR	CU 4x 0,5mm ²	39	5,7	4,9	Colori secondo DIN 47100
CC-55GR	CU 5x 0,5mm ²	39	6,0	5,9	Colori secondo DIN 47100
CC-65GR	CU 6x 0,5mm ²	39	6,6	6,9	Colori secondo DIN 47100
CC-85GR	CU 8x 0,5mm ²	39	7,1	9	Colori secondo DIN 47100
CC105GR	CU 10x 0,5mm ²	39	8,1	11	Colori secondo DIN 47100
CC125GR	CU 12x 0,5mm ²	39	8,4	15	Colori secondo DIN 47100
CC-27GR	CU 2x 0,75mm ²	26	5,4	4,2	Colori secondo DIN 47100
CC-37GR	CU 3x 0,75mm ²	26	5,6	5,3	Colori secondo DIN 47100
CC-47GR	CU 4x 0,75mm ²	26	6,2	6,8	Colori secondo DIN 47100
CC-67GR	CU 6x 0,75mm ²	26	7,2	9,3	Colori secondo DIN 47100
CC-87GR	CU 8x 0,75mm ²	26	7,8	10,8	Colori secondo DIN 47100
CC-21GR	CU 2x 1,0mm ²	19	6,2	5,7	Colori secondo DIN 47100
CC-31GR	CU 3x 1,0mm ²	19	6,4	6,7	Colori secondo DIN 47100
CC-3NGR	CU 3G1,0mm ²	19	6,4	6,7	Colori secondo UNEL 00722
CC-41GR	CU 4x 1,0mm ²	19	7,1	8	Colori secondo DIN 47100
CC-4NGR	CU 4G1,0mm ²	19	7,1	8	Colori secondo UNEL 00722
CC-51GR	CU 5x 1mm ²	19	7,6	9,8	Colori secondo DIN 47100
CC-61GR	CU 6x 1mm ²	19	8,4	11,4	Colori secondo DIN 47100
CC-71GR	CU 7x 1,0mm ²	19	8,4	13	Colori secondo DIN 47100
CC101GR	CU 10x 1,0mm ²	19	10,5	18	Colori secondo DIN 47100
CC-2PGR	CU 2G1,5mm ²	12	7,0	6,2	Colori secondo UNEL 00722
CC215GR	CU 2x 1,5mm ²	12	7,0	6,2	Colori secondo DIN 47100
CC-3PGR	CU 3G1,5mm ²	12	7,2	8,2	Colori secondo UNEL 00722
CC315GR	CU 3x 1,5mm ²	12	7,2	8,2	Colori secondo DIN 47100
CC-4PGR	CU 4G1,5mm ²	12	8,1	10,5	Colori secondo UNEL 00722
CC415GR	CU 4x 1,5mm ²	12	8,1	10,5	Colori secondo DIN 47100
CC-5PGR	CU 5G1,5mm ²	12	8,6	12,5	Colori secondo UNEL 00722
CC-2QGR	CU 2G2,5mm ²	8	8,1	9,4	Colori secondo UNEL 00722
CC225GR	CU 2x 2,5mm ²	8	8,1	9,4	Colori secondo DIN 47100
CC-3QGR	CU 3G2,5mm ²	8	8,4	12,3	Colori secondo UNEL 00722
CC325GR	CU 3x 2,5mm ²	8	8,4	12	Colori secondo DIN 47100
CC-4QGR	CU 4G2,5mm ²	8	9,4	16,4	Colori secondo UNEL 00722
CC425GR	CU 4x 2,5mm ²	8	9,4	16,5	Colori secondo DIN 47100

Applications**Insulation**

PVC flame retardant

Capacity

Mutual 120 pF/m

Insulation resistance at 20°C

Min 200 MOhm/Km

ShieldingAL2 100 %
CU > 40 %**External Jacket**

PVC flame retardant OR Gray

Voltage WithstandingC-4 (U₀=400V)**Test Voltage**

2,5 KV

Temperature rating

-15 / +70 °C

NotesGlobally twisted
CPR Reaction to fire EuroClass
according to EN 50575: Cca,s3,d1,a3**Standards**IEC 332-1-2
VDE 0812 p.q.a.
CEI UNEL 36762**Packaging**M100
B500
B1000

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Data transmission shielded cables FROHH2R (FR type) - Eca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Coded Colors
FR-23GR	CU 2x0,35mm ²	50	4,3	3,2	Colori secondo DIN 47100
FR-33GR	CU 3x0,35mm ²	50	4,7	3,5	Colori secondo DIN 47100
FR-43GR	CU 4x0,35mm ²	50	5,2	4	Colori secondo DIN 47100
FR-53GR	CU 5x0,35mm ²	50	5,8	5	Colori secondo DIN 47100
FR-25GR	CU 2x0,5mm ²	39	4,7	3,2	Colori secondo DIN 47100
FR-35GR	CU 3x0,5mm ²	39	5,0	4,2	Colori secondo DIN 47100
FR-45GR	CU 4x0,5mm ²	39	5,8	5	Colori secondo DIN 47100
FR-55GR	CU 5x0,5mm ²	39	6,2	6,1	Colori secondo DIN 47100
FR-65GR	CU 6x0,5mm ²	39	6,4	7,1	Colori secondo DIN 47100
FR-75GR	CU 7x0,5mm ²	39	6,5	7,7	Colori secondo DIN 47100
FR-85GR	CU 8x0,5mm ²	39	7,2	9,2	Colori secondo DIN 47100
FR105GR	CU 10x0,5mm ²	39	8,5	11,3	Colori secondo DIN 47100
FR125GR	CU 12x0,5mm ²	39	9,0	15,3	Colori secondo DIN 47100
FR-27GR	CU 2x0,75mm ²	26	5,2	4,2	Colori secondo DIN 47100
FR-37GR	CU 3x0,75mm ²	26	5,4	5,4	Colori secondo DIN 47100
FR-47GR	CU 4x0,75mm ²	26	6,5	6,8	Colori secondo DIN 47100
FR-67GR	CU 6x0,75mm ²	26	7,0	9,5	Colori secondo DIN 47100
FR-77GR	CU 7x0,75mm ²	26	7,2	10,6	Colori secondo DIN 47100
FR-87GR	CU 8x0,75mm ²	26	7,6	11,1	Colori secondo DIN 47100
FR107GR	CU 10x0,75mm ²	26	9,1	13,9	Colori secondo DIN 47100
FR127GR	CU 12x0,75mm ²	26	9,0	15,9	Colori secondo DIN 47100
FR-21GR	CU 2x1mm ²	19	6,1	5,9	Colori secondo DIN 47100
FR-31GR	CU 3x1mm ²	19	6,3	6,9	Colori secondo DIN 47100
FR-41GR	CU 4x1mm ²	19	7,1	8,7	Colori secondo DIN 47100
FR-51GR	CU 5x1mm ²	19	7,9	10,8	Colori secondo DIN 47100
FR-61GR	CU 6x1mm ²	19	8,1	12	Colori secondo DIN 47100
FR-71GR	CU 7x1mm ²	19	8,5	13,8	Colori secondo DIN 47100
FR-81GR	CU 8x1mm ²	19	9,4	16,2	Colori secondo DIN 47100
FR101GR	CU 10x1mm ²	19	10,5	19,8	Colori secondo DIN 47100
FR215GR	CU 2x1,5mm ²	12	6,9	7,2	Colori secondo DIN 47100
FR315GR	CU 3x1,5mm ²	12	7,1	8,7	Colori secondo DIN 47100
FR415GR	CU 4x1,5mm ²	12	8,0	11,8	Colori secondo DIN 47100
FR515GR	CU 5x1,5mm ²	12	8,8	14,5	Colori secondo DIN 47100
FR615GR	CU 6x1,5mm ²	12	9,5	16,6	Colori secondo DIN 47100
FR715GR	CU 7x1,5mm ²	12	10	17	Colori secondo DIN 47100
FR225GR	CU 2x2,5mm ²	8	7,7	9,5	Colori secondo DIN 47100
FR325GR	CU 3x2,5mm ²	8	8,1	12,5	Colori secondo DIN 47100
FR425GR	CU 4x2,5mm ²	8	9,3	16,5	Colori secondo DIN 47100

Applications

Data detection and transmission, monitoring and control systems, measurement and monitoring systems, computer network and peripheral interface interconnections. Important protection against electromagnetic interference and external disturbance. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Capacity

Mutual 120 pF/m

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

AL2 100 %
CU > 50 %

External Jacket

PVC flame retardant Gray

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Globally twisted

CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

IEC 332-1-2
VDE 0812 p.q.a.
CEI UNEL 36762

Packaging

M100

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Data transmission shielded cables FR2OH2R (SC type) - Eca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Coded Colors
SC-22GO	CU 2x0,25mm ²	87	4,0	2,3	Colori secondo DIN 47100
SC-32GO	CU 3x0,25mm ²	89	4,5	3,7	Colori secondo DIN 47100
SC-42GO	CU 4x0,25mm ²	89	4,9	3,4	Colori secondo DIN 47100
SC-52GO	CU 5x0,25mm ²	89	5,5	5,3	Colori secondo DIN 47100
SC-62GO	CU 6x0,25mm ²	89	5,7	4,6	Colori secondo DIN 47100
SC-72GO	CU 7x0,25mm ²	89	5,8	6	Colori secondo DIN 47100
SC-82GO	CU 8x0,25mm ²	89	6,1	5,3	Colori secondo DIN 47100
SC-23GO	CU 2x0,35mm ²	50	4,8	3,3	Colori secondo DIN 47100
SC-33GO	CU 3x0,35mm ²	50	5,0	3,9	Colori secondo DIN 47100
SC-43GO	CU 4x0,35mm ²	50	5,7	4,9	Colori secondo DIN 47100
SC-53GO	CU 5x0,35mm ²	50	6,2	6,2	Colori secondo DIN 47100
SC-63GO	CU 6x0,35mm ²	50	6,3	6,2	Colori secondo DIN 47100
SC-73GO	CU 7x0,35mm ²	50	7,5	7,8	Colori secondo DIN 47100
SC-83GO	CU 8x0,35mm ²	50	7,0	7,9	Colori secondo DIN 47100
SC-15GO	CU 1x0,5mm ²	39	3,1	1,5	Colori secondo DIN 47100
SC-25GO	CU 2x0,5mm ²	39	5,1	4	Colori secondo DIN 47100
SC-35GO	CU 3x0,5mm ²	39	5,2	4,3	Colori secondo DIN 47100
SC-45GO	CU 4x0,5mm ²	39	6,0	5,3	Colori secondo DIN 47100
SC-65GO	CU 6x0,5mm ²	39	6,8	7,2	Colori secondo DIN 47100
SC-85GO	CU 8x0,5mm ²	39	7,4	8,7	Colori secondo DIN 47100
SC105GO	CU 10x0,5mm ²	39	8,2	10	Colori secondo DIN 47100
SC-27GO	CU 2x0,75mm ²	26	5,5	5	Colori secondo DIN 47100
SC-37GO	CU 3x0,75mm ²	26	5,5	5,6	Colori secondo DIN 47100
SC-47GO	CU 4x0,75mm ²	26	6,6	7,1	Colori secondo DIN 47100
SC-21GO	CU 2x1mm ²	19	6,4	5,8	Colori secondo DIN 47100
SC-31GO	CU 3x1mm ²	19	6,6	6,9	Colori secondo DIN 47100
SC-41GO	CU 4x1mm ²	19	7,5	8,4	Colori secondo DIN 47100
SC-51GO	CU 5x1mm ²	19	8,4	10,7	Colori secondo DIN 47100
SC215GO	CU 2x1,5mm ²	12	7,3	7,2	Colori secondo DIN 47100
SC315GO	CU 3x1,5mm ²	12	7,4	9,1	Colori secondo DIN 47100
SC415GO	CU 4x1,5mm ²	12	8,5	11,6	Colori secondo DIN 47100
SC515GO	CU 5x1,5mm ²	12	9,3	16,5	Colori secondo DIN 47100
SC225GO	CU 2x2,5mm ²	8	8,0	10,5	Colori secondo DIN 47100
SC325GO	CU 2x2,5mm ²	8	8,6	14,5	Colori secondo DIN 47100

Applications

Data detection and transmission, monitoring and control systems, measurement and monitoring systems, computer network and peripheral interface interconnections. Important protection against electromagnetic interference and external disturbance. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Capacity

Mutual 80 pF/m

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

CU > 70 %

External Jacket

PVC flame retardant Gray oil-proof

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass
according to EN 50575: Eca

Standards

IEC332-1-2
VDE 0812
ENI 0.181.00
IEC189.2
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Data transmission shielded cables FR2OH2R (LIYCY type) - Eca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
LI-22GR	CU 2x 0,25mm ² DIN 47100	89	4,3	2,8	Mutual 100	On request
LI-42GR	CU 4x 0,25mm ² DIN 47100	89	5,2 ± 0,2	4	Mutual 100	On request
LI-62GR	CU 6x 0,25mm ² DIN 47100	89	5,6	5,3	Mutual 100	On request
LI-82GR	CU 8x 0,25mm ² DIN 47100	89	6,2	6,5	Mutual 100	On request
LI102GR	CU 10x 0,25mm ² DIN 47100	89	6,7	7,9	Mutual 100	On request
LI-23GR	CU 2x 0,35mm ² DIN 47100	50	4,7	3,4	Mutual 110	On request
LI-25GR	CU 2x 0,5mm ² DIN 47100	39	5,2	3,9	Mutual 120	On request
LI-45GR	CU 4x 0,5mm ² DIN 47100	39	6,0	5,9	Mutual 120	On request
LI-65GR	CU 6x 0,5mm ² DIN 47100	39	6,7	7,5	Mutual 120	On request
LI-27GR	CU 2x 0,75mm ² Colori secondo DIN 47100	26	5,5	4,6	Mutual 130	M100 B500 B1000
LI-47GR	CU 4x 0,75mm ² Colori secondo DIN 47100	26	6,5	7,1	Mutual 130	M100 B500 B1000
LI-21GR	CU 2x 1mm ² DIN 47100	19	6,4	6	Mutual 130	On request
LI-41GR	CU 4x 1mm ² DIN 47100	19	7,6	10,1	Mutual 130	On request

Applications

Data detection and transmission, monitoring and control systems, measurement and monitoring systems, computer network and peripheral interface interconnections. Important protection against electromagnetic interference and external disturbance. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

CuSn > 65 %

External Jacket

PVC flame retardant Gray

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-20 / +80 °C

Notes

Globally twisted
CPR Reaction to fire EuroClass
according to EN 50575: Eca

Standards

IEC332-1-2
VDE 0812
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Twinpaired overall shielded cables LiYCY TP (LX type) and LiYY TP (FX164)

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
LX-22GR	CU 2x2x0,25mm ² colors by DIN 47100	78	5,6	3,8	Mutual 100	M100 B500 B1000
LX-32GR	CU 3x2x0,25mm ² colors by DIN 47100	78	6,0	5,4	Mutual 100	M100 B500 B1000
LX-42GR	CU 4x2x0,25mm ² colors by DIN 47100	78	6,7	6	Mutual 100	M100 B500 B1000
LX-52GR	CU 5x2x0,25mm ² colors by DIN 47100	78	7,1	7	Mutual 70	B500 B1000
LX25CGR	CU 2x2x0,5mm ² colors by DIN 47100	39	6,7	7	Mutual 70	M100 B500 B1000
LX35CGR	CU 3x2x0,5mm ² colors by DIN 47100	39	7,5	9,4	Mutual 70	M100 B500 B1000
LX-45GR	CU 4x2x0,5mm ² colors by DIN 47100	39	7,7	9,5	Mutual 70	M100 B500 B1000
LX-27GR	CU 2x2x0,75mm ² colors by DIN 47100	26	7,3	7,1	Mutual 130	M100 B500 B1000
LX-47GR	CU 4x2x0,75mm ² colors by DIN 47100	26	8,5	12	Mutual 80	M100 B500 B1000

Applications

Data detection and transmission, monitoring and control systems, measurement and monitoring systems, computer network and peripheral interface interconnections. Important protection against electromagnetic interference and external disturbance. Cables for permanent laying, not suitable as power cables. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

CuSn > 65 %

External Jacket

PVC flame retardant Gray

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Notes

Twisted pairs
CPR Reaction to fire EuroClass
according to EN 50575: Eca

Standards

IEC 332-1-2
VDE 0812
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Twinpaired overall shielded cables Li-2YCYv TP (LXP type) - Eca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
LXP25GS	CU 2X2x0,5mm ² colors by DIN 47100	39	8,8	10	Mutual 60	M100 B500 B1000
LXP35GS	CU 3X2x0,5mm ² colors by DIN 47100	39	9,0	11	Mutual 60	On request
LXP45GS	CU 4X2x0,5mm ² colors by DIN 47100	39	10,5 ± 0,2	14	Mutual 60	M100 B500 B1000
F_{ca} LXP85GS	CU 8x2x0,5mm ² colors by DIN 47100	39	12,0	20,0	Mutual 60	On request
F_{ca} LXP07GS	CU 1X2x0,75mm ² colors by DIN 47100	26	6,5	10	Mutual 60	M100 B500 B1000
LXP27GS	CU 2X2x0,75mm ² colors by DIN 47100	26	9,3	15	Mutual 60	On request
LXP47GS	CU 4X2x0,75mm ² colors by DIN 47100	26	10,8	17	Mutual 60	M100 B500 B1000
F_{ca} LXP67GS	CU 6X2x0,75mm ² colors by DIN 47100	26	12,0	15	Mutual 60	On request

Applications

For wiring from data systems at transmission rates up to 10 Megabit per second and is qualified for the serial interfaces RS422 and RS485. The reinforced outer sheath is suitable for inside and outside use as well as burial in the ground. Cohabitation with power cables is allowed for 450/750V and 0.6/1kV.

Insulation

PE

Insulation resistance at 20°C

Min 200 MOhm/Km

Shielding

CuSn > 60 %

External Jacket

PVC flame retardant Gray UV-resistant

Voltage WithstandingC-4 (U₀=400V)**Test Voltage**

4,5 KV

Temperature rating

-40 / +80 °C

Notes

Suitable for outdoor installation in conduit and in damp environments..
CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

IEC 332-1-2
VDE 0812 p.q.a.
CEI UNEL 36762

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Unshielded extra flexible cables 07BQ-F (NP type) - Fca

Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
NP-21AM	CU 2x 1mm ² Colori secondo UNEL 00722	18	7,3	6,7		M100
NP-31AM	CU 3 Gx 1mm ² Colori secondo UNEL 00722	18	6,9	7		M100
NP-41AM	CU 4 Gx 1mm ² Colori secondo UNEL 00722	18	8,0	9,8		On request
NP215AM	CU 2x 1,5mm ² Colori secondo UNEL 00722	13	7,6	8		M100
NP315AM	CU 3 Gx 1,5mm ² Colori secondo UNEL 00722	13	8,2	9,8		M100
NP415AM	CU 4 Gx 1,5mm ² Colori secondo UNEL 00722	13	9,3	13,5		On request
NP325AM	CU 3 Gx 2,5mm ² Colori secondo UNEL 00722	8	10,4	15,9		M100

Applications

Multipolar cables suitable for heavy-duty use, used for temporarily connecting tools and portable equipment.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 500 MOhm/Km

External Jacket

PU Orange

Voltage Withstanding

C-4 (U₀=400V)

Test Voltage

2,5 KV

Temperature rating

-5 / +75 °C

Notes

CPR Reaction to fire EuroClass according to EN 50575: Fca

Standards

CEI 20-35
IEC 332-1-2

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Telephone Cables



Indoor telephone TR/R cables (TX type) - Eca



Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
TX16-GR	CuSn 1x2x0,6mm Colori secondo UNEL 00724	61	3,1	1,3	Mutual 120	M100
TX16TGR	CuSn 1x2+Tx0,6mm Colori secondo UNEL 00724	61	3,2	1,7	Mutual 120	M100
TX26-GR	CuSn 2x2x0,6mm Colori secondo UNEL 00724	61	4,3	2,3	Mutual 120	M100
TX26TGR	CuSn 2x2+Tx0,6mm Colori secondo UNEL 00724	61	4,9	2,7	Mutual 120	M100
TX36TGR	CuSn 3x2+Tx0,6mm Colori secondo UNEL 00724	61	5,2	3,9	Mutual 120	M100
TX46-GR	CuSn 4x2x0,6mm Colori secondo UNEL 00724	61	5,6	3,7	Mutual 120	On request
TX46TGR	CuSn 4x2+Tx0,6mm Colori secondo UNEL 00724	61	5,7	4,3	Mutual 120	On request
TX56TGR	CuSn 5x2+Tx0,6mm Colori secondo UNEL 00724	61	6,0	5,2	Mutual 120	On request
TX66-GR	CuSn 6x2x0,6mm Colori secondo UNEL 00724	61	6,2	5,3	Mutual 120	On request
TX86TGR	CuSn 8x2+Tx0,6mm Colori secondo UNEL 00724	61	7,1	7,7	Mutual 120	On request
TX11TGR	CuSn 11x2+Tx0,6mm Colori secondo UNEL 00724	61	7,7	9,7	Mutual 120	On request
TX11DPN	CuSn 11x2+Tx0,6mm Colori secondo UNEL 00724	61	9,6	10,3	Mutual 120	M100 B500
T16TDPN	CuSn 1x2+Tx0,6mm Colori secondo UNEL 00724	61	4,4	2,3	Mutual 120	M100 B500 B1000
T26TDPN	CuSn 2x2+Tx0,6mm Colori secondo UNEL 00724	61	6,1	2,7	Mutual 120	M100 B500 B1000
TR26-	CuSn 1x2x0,6mm Colori secondo UNEL 00724	61	2,0	0,65	Mutual 120	M250

Applications

Pair cables for connections in telephone exchanges or distribution systems inside civil and industrial buildings. Not suitable as power cables.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MOhm/Km

External Jacket

PVC flame retardant Gray

Voltage Withstanding

C-4 (U0=400V)

Test Voltage

1,5 KV

Temperature rating

-10 / +80 °C

Notes

Twisted pairs
CPR Reaction to fire EuroClass according to EN 50575: Eca

Standards

CEI 46-5
UNEL 00724



REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Audio cables



Audio cables for Hi-Fi and Speaker systems



Part Num.	Conductor	Cond. Res. Ohm/Km	Diameter mm	Weight Kg/100m	Capacity pF/m	Packaging
ACB35	CU 2x0,35mm ² Red-Black	52	2,0 x 4,0	1,5		M100
ACB05	CU 2x0,50mm ² Available: White, Black, Brown, Transparent, Gold	36	2,5 x 5,0	2		M100
ACB50	CU 2x0,50mm ² Red-Black	36	2,0 x 4,4	1,8		M100
ACB75	CU 2x0,75mm ² Red-Black	24	2,3 x 5,0	2,5		M100
ACB10	CU 2x1,00mm ² Red-Black	19	2,7 x 5,5	3,2		M100
ACB15	CU 2x1,50mm ² Red-Black	12	3,0 x 6,0	4,2		M100
ACB25	CU 2x2,50mm ² Red-Black	7,8	4,0 x 8,0	7		M100

Applications

Cables for loudspeakers, HI-FI and public address systems.

Insulation

PVC flame retardant

Insulation resistance at 20°C

Min 200 MΩm/Km

Test Voltage

2,5 KV

Temperature rating

-10 / +80 °C

Standards

IEC 60332-1

REMARK: All cables can be ordered with ANTI-RODENT ARMOUR and are ROHS and LVD compliant.

Accessories and Connectors



Tools and Connectors



ACFAS

Stripping Tool FAST.



ACFIN

Scissors COAX (inox).



ACCRP

Clamp for connectors F Crimp.



ACPBN

Clamp for BNC Crimp.



AV121

for SA-59 / SAD80 / H121 (screw connector).



AV122

for SA-36 / H122 (screw connector).



AV123

for SAE60 / H123 (screw connector).



AV124

for SAD10 / SA--6 / H124 / H128 (screw connector).



AV125

for SA300 / H125 (screw connector).



AV-G7

for SA-75 / PRG7 (screw connector).



AC-EA

for SA-59 / SA59D / H121 (F Crimp).



AC-SI

for SA300 / SA-75 / H125 (F Crimp).



AC-OI

for SA--6 / SAD10 / H124 / H128 (F Crimp).



ACBAA

RG58C Male (BNC Crimp).



ACBAB

RG 59-62 / DS-80 / DK-80 (BNC Crimp).



ACBAL

for cables RG174 / DS-40 / DK-40 (BNC Crimp).

Our Packaging

Ending part of the part-number

Ending part of the part-number	Picture	Length	Description
M100	F	100 m	Skein
MC100	F	100 m	Skein
BC100	D	100 m	Plastic Reel
B100 (ITC only)	C	100 m	Wood Reel
B100 (Belden only)		100 m	Skein in carton box
MC150	F	150 m	Skein
BC200	D	200 m	Plastic Reel
MC200	F	200 m	Skein
B250	D	250 m	Plastic Reel for expositor
U250 (Belden only)	E	250 m	Unreel® Box
MB250	E	250 m	Unreel® Box
B500	C, D	500 m	Plastic or Wood Reel depending on cables
B300	D	300 m	Plastic Reel for expositor
U305 (Belden only)	E	305 m	Unreel® Box
305 (Belden only)	E	305 m	Reel
MB300	E	300 m	Unreel® Box
1000	A	1.000 m	Wood Reel, thin cables in Plastic Reels

Optical Fiber is available in any length, packaged in Skein or Wood Reels.



Installation instructions



Material handling

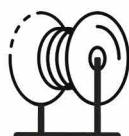
The supplied skeins or reels must be brought to the installation site where possible. When moving the reels we recommend not rolling them on the ground.



Cable preparation



- The skeins must be unwound by taking the end from the center of the skein.



- The coils can only be unwound from the outer end, the outer end is always fixed with adhesive tape.

- The use of trestles to unwind the coils is recommended.

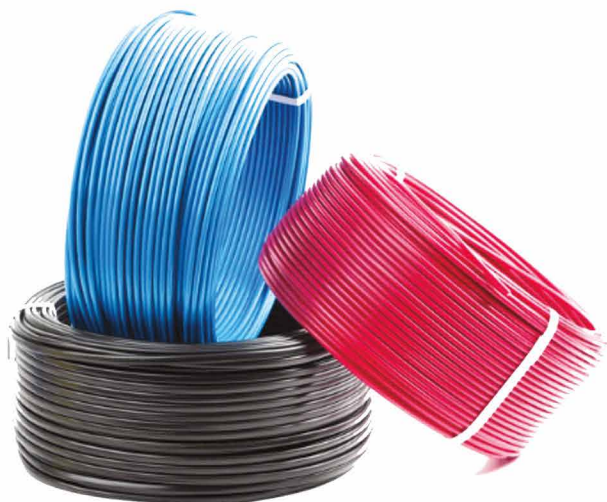
- The cable must be unwound with the aid of rollers or pulleys, avoiding deviation or rubbing on edges, walls and/or floors.



- Before assembly, the cable must be unwound and stretched out for its entire length of use in a linear manner.

Preparing new reels

When a reel of cable needs to be unwound onto another empty reel, the two reels must be aligned and the cable must proceed linearly without making "S" crossings.



Insulation Colour Guide

Wires Color (DIN 47100)

Conductor	Color
1	White
2	Brown
3	Green
4	Yellow
5	Gray
6	Pink
7	Blue
8	Red
9	Black
10	Violet
11	Gray / Pink
12	Red / Blue
13	White / Green
14	Brown / Green
15	White / Cyan
16	Yellow / Brown
17	White / Gray
18	Gray / Brown
19	White / Pink
20	Pink / Brown
21	White / Blue
22	Brown / Blue
23	White / Red
24	Brown / Red
25	White / Black
26	Brown / Black
27	Gray / Green
28	Yellow / Green
29	Pink / Green
30	Yellow / Pink
31	Green / Blue
32	Yellow / Blue
33	Green / Red
34	Yellow / Red
35	Green / Black
36	Yellow / Black
37	Gray / Blue
38	Pink / Blue
39	Gray / Red
40	Pink / Red

Colors of Pair-Cables

Pairs N°	1° Conductor	2° Conductor
1-23	White	Brown
2-24	Green	Yellow
3-25	Gray	Pink
4-26	Blue	Red
5-27	Black	Violet
6-28	Gray / Pink	Red / Blue
7-29	White / Green	Brown / Green
8-30	White / Yellow	Yellow / Brown
9-31	White / Gray	Gray / Brown
10-32	White / Pink	Pink / Brown
11-33	White / Blue	Brown / Blue
12-34	White / Red	Brown / Red
13-35	White / Black	Brown / Black
14-36	Gray / Green	Yellow / Gray
15-37	Pink / Green	Yellow / Pink
16-38	Green / Blue	Yellow / Blue
17-39	Green / Red	Yellow / Red
18-40	Green / Black	Yellow / Black
19-41	Gray / Blue	Pink / Blue
20-42	Gray / Red	Pink / Red
21-43	Gray / Black	Pink / Black
22-44	Blue / Black	Red / Black

Wires Color for FM cables

Pairs N°	1° Conductor	2° Conductor
1	Red	Black
2	WHITE / Blue	Blue
3	WHITE / Orange	Orange
4	WHITE / Green	Green
5	WHITE / Brown	Brown
6	WHITE / Gray	Gray
7	RED / Blue	Blue
8	RED / Orange	Orange
9	RED / Green	Green
10	RED / Brown	Brown
11	RED / Gray	Gray
12	Black / BLUE	Blue
13	Black / ORANGE	Orange
14	Black / GREEN	Green
15	Black / BROWN	Brown
16	Black / GRAY	Gray
17	VIOLET / Blue	Blue
18	VIOLET / Blue	Orange
19	VIOLET / Green	Green
20	VIOLET / Brown	Brown
21	VIOLET / Gray	Gray

Wire colors for telecom applications

(CEI46-5 UNEL 00724)

Pairs N°	1° Conductor	2° Conductor
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Gray
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Gray
11	Black	Blue

Wire colors for 07BQ-F cables

(CEI UNEL 00722 4° edition)

Wire	Colors
1	Light Blue / Brown
2	Yellow-Green / Brown / Light Blue
3	Yellow-Green / Black / Light Blue / Brown
4	Yellow-Green / Black / Light Blue / Brown / Black
5	Yellow-Green / Black / Light Blue / Brown / Black / Gray

AWG Conversion and Conductor Resistance Guide

AWG Conversion

AWG	Conductor (type)	Overall diameter (mm)	Section (mmq)	Resistance (Ohm/m)
40	Solid	0.079	0.005	354.3
39	Solid	0.089	0.006	278.2
38	Solid	0.102	0.008	212.8
37	Solid	0.114	0.010	168.0
36	Solid	0.127	0.013	136.1
	Flex	0.153	0.014	136.1
35	Solid	0.142	0.016	108.6
34	Solid	0.160	0.020	85.6
	Flex	0.191	0.022	85.6
33	Solid	0.180	0.025	67.9
32	Solid	0.209	0.032	53.8
	Flex	0.203	0.034	53.8
	Flex	0.229	0.039	53.8
31	Solid	0.226	0.040	42.7
30	Solid	0.255	0.051	33.9
	Flex	0.305	0.056	36.7
	Flex	0.305	0.060	36.7
29	Solid	0.287	0.064	26.8
28	Solid	0.320	0.080	21.3
	Flex	0.381	0.071	23.2
	Flex	0.406	0.093	23.2
27	Solid	0.361	0.102	16.9
	Flex	0.457	0.111	18.2
26	Solid	0.404	0.127	13.4
	Flex	0.483	0.140	14.6
	Flex	0.533	0.127	14.6
	Flex	0.508	0.153	14.6
25	Solid	0.455	0.163	10.6
24	Solid	0.511	0.203	8.4
	Flex	0.610	0.226	9.1
	Flex	0.584	0.200	9.1
	Flex	0.610	0.239	9.1
	Flex	0.584	0.201	9.1
23	Solid	0.574	0.259	6.7
22	Solid	0.643	0.322	5.3
	Flex	0.762	0.352	5.7
	Flex	0.787	0.380	5.7
	Flex	0.762	0.327	5.7
21	Solid	0.724	0.412	4.2
20	Solid	0.813	0.514	3.3
	Flex	0.965	0.562	3.6
	Flex	0.890	0.504	3.6
	Flex	0.940	0.612	3.6
	Flex	0.914	0.520	3.6
	Flex	0.914	0.533	3.6
19	Solid	0.912	0.653	2.7
18	Solid	1.020	0.816	2.1
	Flex	1.220	0.891	2.3
	Flex	1.200	0.808	2.3
	Flex	1.240	0.957	2.3
	Flex	1.200	0.819	2.3
	Flex	1.200	0.845	2.3
17	Solid	1.150	1.039	1.7
16	Solid	1.290	1.300	1.3
	Flex	1.520	1.420	1.4
	Flex	1.470	1.216	1.4
	Flex	1.500	1.310	1.4
	Flex	1.500	1.300	1.4
	Flex	1.500	1.365	1.4
15	Solid	1.450	1.651	1.0
14	Solid	1.630	2.070	0.8
	Flex	1.850	2.260	0.9
	Flex	1.850	1.930	0.9
	Flex	1.850	2.060	0.9
	Flex	1.850	2.100	0.9
13	Solid	1.830	2.630	0.7
12	Solid	2.050	3.290	0.5
	Flex	2.440	3.610	0.6
	Flex	2.360	3.070	0.6
	Flex	2.410	3.270	0.6
	Flex	2.410	3.300	0.6
11	Solid	2.300	4.155	0.4
10	Solid	2.600	5.230	0.3
	Flex	2.920	4.710	0.4
	Flex	2.950	5.230	0.4
	Flex	2.950	5.355	0.4

Electric Conductor Resistance

Section (mmq)	Solid copper (Ohm) (Red)	Tinned	Flex copper (Ohm) (Red)	Tinned
0,14	122	123	132	135
0,20	92	93	100	102
0,22	83	84	91	93
0,25	73	74	78	80
0,35	52,5	53,5	57	59
0,50	36	36,6	39	40
0,75	24,4	24,7	26	26,5
1,00	18	18,2	19,5	20
1,50	12	12,2	13	13,7
2,50	7,4	7,6	8	8,2

Unit Conversion

From	To	Formula	Results
mm	inch	: 25,4	exact
metri	feet	x 0,3048	exact
km	miles	x 0,6214	rounded
Kg	pounds	x 2,204	rounded
kg/km	pounds/1000feet	x 0,67197	rounded
°C	°F	°C x 1,8+32	exact

From	To	Formula	Results
inch	mm	x 25,4	exact
feet	metri	: 0,3048	exact
miles	km	x 1,6093	rounded
pounds	Kg	x 0,4536	rounded
pounds/1000feet	kg/km	x 0,67197	rounded
°F	°C	(°F-32) : 1,8	exact

Standards Guide

National standard	International standard	Description
CEI EN 60228	IEC 60228	Insulated cable conductors.
CEI 20-11	CEI EN 50363	Technical characteristics and specifications and test requirements for insulating and sheathing compounds for power and signal cables.
CEI EN 50363		Insulating, sheathing and covering materials for low-voltage energy cables. Part 0: Generalities.
CEI EN 60332-1-2		Tests on electric and optical cables under fire conditions Part 1-2: Test for vertical flame propagation on a single insulated conductor or cable - Procedure for 1 kW premixed flame.
CEI EN 60332-2-2		Tests on electric and optical cables under fire conditions Part 2-2: Test for vertical flame propagation on a small single insulated conductor or cable - Procedure for diffusion flame,
CEI EN 50266/2-4	IEC 60332-3-24 Cat. C	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables Part 2-4: Procedures Category C.
CEI EN 50267-2-1	IEC 60754-1	Common test methods for cables under fire conditions - Tests on gases emitted during combustion of materials taken from cables Part 2-1: Test procedures Determination of the amount of gaseous halogen acid.
CEI EN 50267-2-2	IEC 60754-2	Common test methods for cables under fire conditions - Tests on gases emitted during combustion of materials taken from cables Part 2-2: Test procedures - Determination of degree of acidity (corrosivity) of gases in materials by measuring pH and conductivity.
CEI EN 50267-2-3		Common test methods for cables under fire conditions - Tests on gases emitted during combustion of materials taken from cables Part 2-3: Test procedure - Determination of degree of acidity (corrosivity) of cable gases by calculation of weighted average pH and conductivity.
	CEI EN 61034-2	Measurement of smoke density emitted by cables burning under defined conditions Part 2: Test procedure and requirements.
CEI 20-105		Electrical cables for applications in fixed automatic fire detection and fire alarm systems and gas detection systems with special fire performance characteristics complying with the Construction Products Regulation (CPR). Cables with additional fire resistance performance. Rated voltage: U0/U: 100/100 V.
CEI EN 50200		Test method for the fire resistance of small and unprotected cables for use in emergency circuits.
CEI 20-36/1-1	IEC 60331-11	Fire resistance tests for electrical cables under fire conditions - Circuit integrity Part 11: Test apparatus with only fire at a flame temperature of at least 750°C.
CEI 20-36/2-1	IEC 60331-21	Fire resistance tests for electric cables under fire conditions - Circuit integrity Part 21: Procedures and requirements - Cables with rated voltage 0,6/1kV.
CEI 20-45		Elastomer compound insulated, fire resistant, halogen-free cables (LSOH) with a rated voltage U0/U of 0.6/1 kV.
CEI 46-5	IEC 189-2 - IEC 189-2/A1	Low-frequency, PVC-insulated telecommunication cables, cords and wires Pairs, triads, quads and quinas for indoor installations.
CEI 46-7	IEC 189-4 - IEC 189-4/A1	Cables, cords and wires for low frequency telecommunications, PVC insulated Cords for solid conductor patching, pair, triad, fourth and fifth.
	IEC 60304	Standard colors for the insulation of low frequency cables and wires.
	IEC 60344	Calculation of DC resistance of bare or copper-clad conductors for low-frequency cables and wires.
CEI 46-80	CEI EN 50288-2-1	Multi-element metallic cables used in analogue and digital communication and control systems. Part 2-1: Sectional specification for shielded cables with up to 100 MHz - Cables for building backbones and horizontal wiring.
CEI 46-87	CEI EN 50288-3-1	Multi-element metallic cables used in analogue and digital communication and control systems Part 3-1 Sectional specification for unshielded cables with up to 100 MHz - floor and building backbone cables.
CEI EN 50117		Coaxial cables for use in analogue and digital systems.
CEI UNEL 36762		Identifications and tests to be used for cables for category 0 systems in connection with coexistence in conduits containing cables for category I systems.
UNEL 00722		Identification of cable cores (see Color Table page).
UNEL 00724		Cables, cords and wires for low frequency telecommunications, PVC insulated, wire colors for cables in pairs, triads, fourths (see Color Table page).
DIN 47100		Telecommunication cables: core identification, outer sheath colors (see Color Table page).

Key and Glossary Guide

Multiconductor cables Glossary (CEI - UNEL 35011)

Conductor flexibility

U	Drain wire
R	Solid, round stranded conductor
F	Flexible conductor of a cable for fixed installation
FF	Round, very flexible conductor

Insulation quality

E	Thermoplastic polyethylene compound
E4	Cross-linked polyethylene mixture with temperature 85°C
G1	Natural and/or synthetic rubber with temperature 85°C
G4	EI2 silicon rubber mixture with temperature 180°C
R	Polyvinylchloride, types T11 e T12 with temperature 70°C
R2	Polyvinylchloride, types R2 quality with temperature 70°C
R3	Polyvinylchloride, with temperature 105°C
R7	Polyvinylchloride, types T13, with temperature 90°C
E	Thermoplastic polyethylene compound
G	Natural and/or synthetic rubber with temperature 60°C, EI1 quality
M	Mineral insulation
M9	Thermoplastic mixture with temperature 70°C (low toxic emissions)

Screen

C	Copper concentric conductor
H	Metallic paper, carbon paper or aluminium tape screen
H1	Tapes twin-lead or wire copper screen
H2	Stranded or braided wire copper screen
H3	Double-stranded or braided wire copper screen

Metallic Armour

A	Aluminium sheath or braid metallic braid armour
F	Cylindrical wires armour, usually in steel
N	Tape armour, usually in steel
Z	Twin-lead armour, usually in steel

Not Metallic Sheaths

E	Polyethylene sheath EY and EY quality
E4	Cross-linked polyethylene sheath, EM4 quality
G	Natural and/or synthetic rubber sheath, Gy quality
M1	Thermoplastic sheath with low emission of smoke and toxic, corrosive gases
M2	Thermoplastic sheath with low emission of smoke and toxic, corrosive gases
M3	Thermoplastic sheath with low emission of smoke and toxic, corrosive gases
M4	Thermoplastic sheath with low emission of smoke and toxic, corrosive gases
R	PVC-based sheath, TM1, TM2 and RZ quality

Cable Shape

O	Round cable with joined cores
D	Flat cable with joined parallel cores
X	Joined cores with visible helix
W	Joined parallel cores with intermediary groove for flat divisible cables

Special components

S	Carrying component, usually metal, joined to the sheath
Y	Textile or metallic carrying component between cores or externally connected to the cable

ITC Glossary

CU	Red Copper
CuSn	Tinned Copper
CuAg	Rame argentato 4‰
CW	Copperweld ®
ALMELEC	AL+SI+MG compound
AL 2	Foil AL+PET
AL 3	Foil AL+PET+AL
AL 3/3	Foil AL+PET+AL SUPER
F.CU	Foil Copper
LSZH	Low smoke emission - Halogen Free
PE	Polyethylene low density
PEGJ	Expansion Polyethylene
PE/A	Polyethylene + Air
PP	Polypropylene
PVC	Polyvinyl chloride
PET	Polyester foil
AF	PVC flame-retardant
EX	Reel (plastic)
B o BC	Reel (wood)
M o MC	Skein
MB	UnReel

Fiber Optic Glossary

J/A	Cable suitable for in/outdoor
A	Cable suitable only for outdoor
J	Cable suitable only for indoor
D	Loose Tube
Q	Aramid Fiber
V	Tight
H	Sheath suitable for in/outdoor
2Y	Sheath suitable only for outdoor
HH	Double jackets LSZH suitable for in/outdoor
(ZN)	Standard rodent-protection with strength member
(SR)	Full rodent-protection, corrugated steel tape or steel wire armor

VDE Glossary

Conductor flexibility

Li	Flexible conductor
f	Round, very flexible conductor
re	Semi-solid conductor
e	Solid conductor

Insulation and Sheath Materials

G	Rubber
H	Halogen Free
Y	Polyvinylchloride
2Y	Polyethylene
O2Y	Foam Polyethylene
11Y	Polyurethane

Screen

C	Copper braid
(st)	Aluminium foil
CE	Copper braid (each wire)
PiMF	Aluminium foil (each pair)
D	Spiral wined screening bare copper

Armour

A	For outdoor installations
J	For permanent installations
JE	For permanent installations (Electronic Industries)
-J	Cable with green-yellow ground-core
JZ	Cable with green-yellow ground-core and cores with inprinted numbers
O	Cable without ground-core
OZ	Cable without green-yellow ground-core and cores with inprinted numbers

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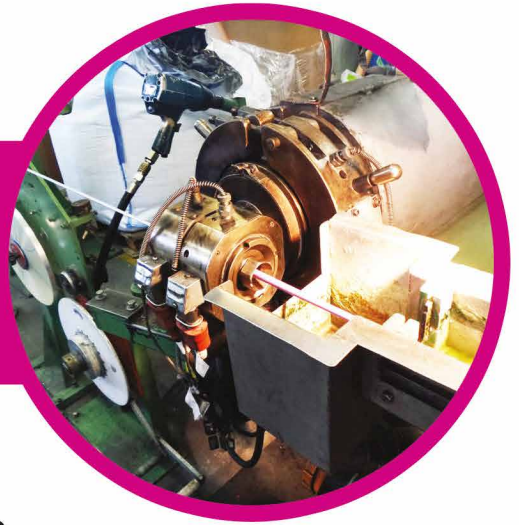
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A BELDEN BRAND



That's how come the sheaths of our cables, precise diameters and made of the highest quality materials.



CABLES PRODUCER SINCE 1979



We are able to produce any kind of shield or armor, up to 300 Km daily.



Multi-core cables are made with the best twisting step in order to ensure the best flexibility.



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