

TECO, YOUR TECHNOLOGY PARTNER FOR INDUSTRIAL AUTOMATION.

tecoit.com

40 YEARS OF EXPERIENCE DRIVEN BY PASSION.





Celebrates 40 years!

The new generation redefines the **brand identity.** Our cables are now shipped to 34 countries. Becomes Value-Added **Distributor** (VAD) for **Rockwell** Automation and Diamond Partner with Datalogic.

2022

...WELCOME TO THE NEXT 40 YEARS.



With 40 years of know-how TECO specializes in **design, consultancy and commercialization of special made in Italy cables and components for industrial automation**.

At TECO, we are passionate about what we do, moving forward with enthusiasm and determination. Our roots are in a region with a great industrial tradition, this allows us to react quickly and keep up with the needs of our clients. Our solutions are the result of a new generation of technological development, a talented team of specialists and continuous investment in innovation. We are one of the leaders in Italy and we are continuously growing abroad.

That's TECO.

THE CUSTOMER IS AT OUR HEART AND ALL *OUR SERVICES* ARE DEVOTED TO THEM.

Skill, speed, support.

We are a reactive organization that quickly **responds to even the most complex requests.** Over the years we have learned to identify customers' real expectations and design solutions to meet them.

Our customers choose us due to our solutions' quality, but we gain them only based on the reliability of our service.



WHAT IS THE SECRET OF OUR SPEED? IT IS IN THE WAREHOUSE.

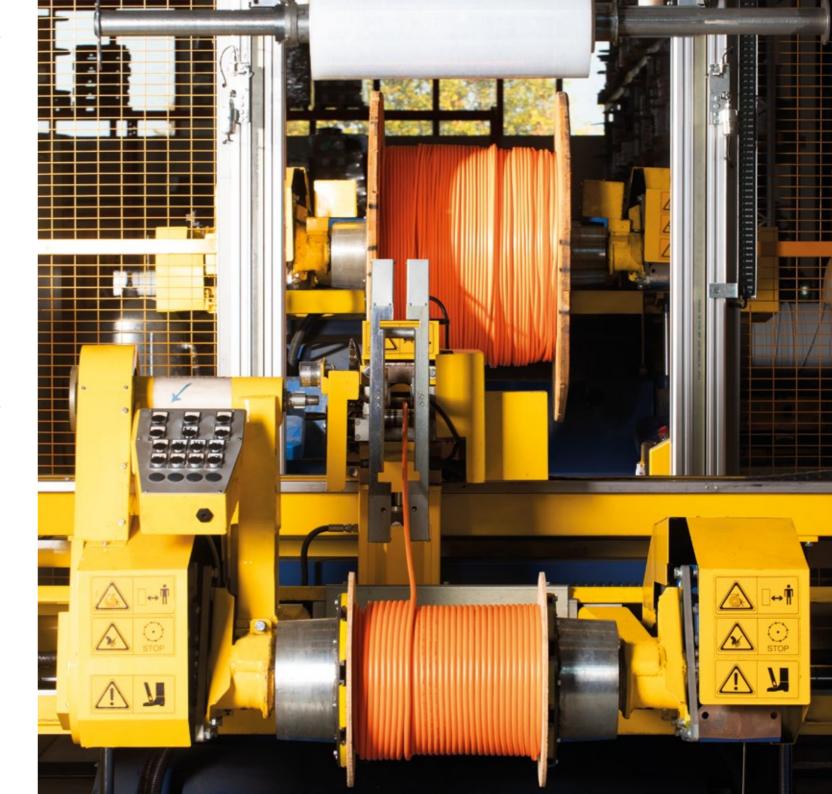
At TECO, we stock more than **1,500 made** in Italy special cables, and **5,000 industrial** components inside an efficient, fully computerized warehouse.

Our cables may be cut to size following the customers' needs. All our products are ready to be shipped, with an average delivery times of 48 hours.

WE CAN CUT CABLES TO SIZE, WITHOUT AFFECTING THEIR CERTIFICATION.

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Our certified cables are cut and traceable according to the UL Processed Wire Respooled standard, meaning that they will never lose UL certification.





THE VALUE OF PEOPLE, BEYOND TECHNOLOGY.

Behind our development lies a **team of passionate people** working every day towards a common goal.

We believe in talent and in motivating everyone as part of a team because the balanced combination of these two factors is the right formula to achieve top-level support.

From our in-house personnel to our sales network, our large team works as one. ASSISTANCE AND SUPPORT, A CONTINUOUS EXCHANGE.

CONSULTANTS,

TRUE

MORE THAN

A SALES TEAM.

THE BEST SOLUTION IS THE ONE WE DEVELOP TOGETHER.

SHARE EXPERIENCE, HAND DOWN KNOWLEDGE. TECO_lab. Our **extensive sales network** is the best way to stay close to the needs of every customer. **Our focus is still the understanding:** getting to know the requirements of each company, understanding their inner structures and cultivating relationships which lead to ideal solutions.

TECO sales staff always work in close contact with our internal **Customer Experience** team. **There's close collaboration between both departments who work daily with the customers** to answer their requests, to elaborate quotations, to meet special needs, and to provide them with the availability of cables and industrial components.

Our **Technical Department** and our **Sales Engineers** work with the customer to identify the correct cable or component and optimize the project, according to each specific requirement. This means we offer **advanced support as a true and integrated partner for the customer.**

In a constantly evolving sector, always being focused on the product is the only way to face the challenges of the future.

This is as true for us as it is for our customers, to whom we offer technical update training sessions, videos, interviews with experts and bite-size sessions on how to use and install cables and components. These **continuous training tools are primarily aimed at our employees but are also used by our customers and sector partners.**



ALL OUR CABLES COMPLY WITH THE LATEST REQUIREMENTS.

QUALITY CERTIFIED, INTERNATIONALLY GUARANTEED.





UNLIMITED APPLICATIONS, UNIQUE EXCELLENCE.

All TECO brand cables are produced under the supervision of our **Research & Development team who have honed their ability to produce innovative products over the years.**

Our cables are designed and patented to connect to the most niche requirements in the industrial automation. Cutting-edge products need top-level certification. Most of our special cables are certified by Underwriters Laboratories (UL) and the Canadian Standards Association (CSA).

We subject ourselves to the strictest checks, testing the efficiency of our organization, processes and solutions. We are proud to have achieved **ISO 9001:2015** certification. The best guarantee for our customers is our standing attention to quality.

TECO cables meet the multitude of requirements found in the industrial automation sector.

They are used to wire up **electrical panels**, control boards, link motors to a fieldbus and connect an entire production line.

Besides applications we can undertake ad hoc projects to map specific solutions.



PACKAGING



CERAMICS











MECHANICAL ENGINEERING





MACHINE TOOLS



AIR CONDITIONING SYSTEMS





ELECTRONICS & ELECTROMECHANICS

	CHAINS			HS FLAME-RETARDANT	OIL-RESISTANT		FLEX-TORSIONAL		BERVOMOTOR		WATER-RESISTANT	BULDING			LISTED E471678	E244280	\$	⊲HAR⊳	CPR 305/11 Eca	CE	Roffs		EMC 2014/30/UE	(WHEC 60754-1) Haldgen Free	
FRX® PLUS	~	~	~	~	~											~	~			×	~	~	×		
PMXX [®] PLUS	~	~	~	~	~	~	~	~								~	~			~	~	~	~	~	
FE PLUS SERVO SH		~	~	~	~				~							~	~			~	~		~		
MULTINORM/ MULTIRATED TYPE MTW - TEW - HAR			~	~	~					~					~	~	~	~		~	~				
STYLE 21179		~	~	~	~											~	~			×	~		~		
TC – ER		~	~	~	~						~	~			~	~	~			~	~		~		
TC - ER NYLON		~	~	~	~						~	~			~	~	~			~	~		~		
VFD 2XSLCYK-JB			~	~	~				~							~	~			~	~		~		
TECNIFLEX®		~		~	~														~	~	~	~	~		
TECNIFLEX® BK UL 2570		~		~	~										~		~			~	~	~	~		
TECNIFLEX® AR		~		~															~	~	~	~	~		
SIGNAL TRANSMISSION		~		~									~	~		~	~			~	~		~		
BUS	~	~		~	~			~						~	~	~	~			~	~	~	~		

CABLES FOR DYNAMIC APPLICATION IN DRAG CHAIN

Т	JACKET	SHIELD	INSULATION	REFERENCE STANDARDS	WORKING VOLTAGE [V]	MIN. BENDING RADIUS [X Ø CABLE]	TECO RANGE
SERVO	PVC	Yes	PO	N @ (E	1000	7,5 / 10	FRX [®] PLUS SH
	PUR	Yes	PO	N (F CE	1000	6 / 10	PMXX [®] PLUS SH
	PVC	Yes	PO	N (E	1000	10 / 12	FE SERVO PLUS SH
POWER&CONTROL MULTICORE	PVC		PO	N (E	1000	7,5 / 10	FRX® PLUS
	PVC	Yes	PO	SE (E	1000	7,5 / 10	FRX [®] PLUS SH
	PUR		PO	N (F	1000	6 / 10	PMXX [®] PLUS
	PUR	Yes	PO	N (F CE	1000	6 / 10	PMXX [®] PLUS SH
POWER&CONTROL SINGLE CORE	PVC		PO	N () ()	1000	7,5 / 10	FRX [®] PLUS
	PVC	Yes	PO	N @ (E	1000	7,5 / 10	FRX [®] PLUS SH
	PUR		PO	N (E	1000	7 / 10	PMXX [®] PLUS
	PUR	Yes	PO	N (E	1000	7 / 10	PMXX [®] PLUS SH
ENCODER & RESOLVER	PVC	Yes	PO	N (E	300	7,5	FRX [®] PLUS SH
	PUR	Yes	PO	N () ()	300	7,5	PMXX [®] PLUS SH

Түре	ЈАСКЕТ	SHIELD	INSULATION	REFERENCE STANDARDS	WORKING Voltage [V]	MIN. BENDING RADIUS [X Ø CABLE]	TECO RANGE
SIGNAL TRANSMISSION	PVC		PO		300	7,5	FRX [®] PLUS
	PVC	Yes	PO	N (F	300	7,5	FRX [®] PLUS SH
	PUR		PO	N ((300	6	PMXX [®] PLUS
	PUR	Yes	Ρ	N (300	6	PMXX [®] PLUS SH
	PUR	Yes	PO	N (300	6,5 / 10	PMXX [®] (TP) PLUS SH
DATA TRANSMISSION	PVC	Yes	PO	N () (()	300	12	PROFIBUS®
	PUR	Yes	PO		30	7,5	PROFIBUS®
	PUR	Yes	PO	N () ((1000	10	PROFINET® / ETHERCAT®
	PUR	Yes	PO		30 / 300 / 1000	10	ETHERNET
	PUR	Yes	PO		30	10	DRIVE-CLIQ [®]
	PUR	Yes	PO		30	10	CANOPEN®
	PUR	Yes	PO		30	10	INTERBUS®
	PUR	Yes	PO	N (300	10	DEVICENET™

PVC = Polyvinylchloride **PO** = Polyolefin **PUR** = Polyurethane

= UL Listed Standard **N** = UL Recognized Standard



CABLES FOR STATIC **APPLICATION**

TYPE	ЈАСКЕТ	SHIELD	INSULATION	REFERENCE STANDARDS	WORKING VOLTAGE [V]	TECO RANGE	TYPE	JACKET	SHIELD	INSULATION
SERVO	PVC	Yes	XLPE	P () ()	1000 ; Uo/U 600/1000	VFD 2XSLCY K-JB	SIGNAL TRANSMISSION	PVC		PVC
POWER&CONTROL MULTICORE	PVC		PVC	P (6) (6)	1000	STYLE 21179	TRANSMISSION	PVC		PVC
	PVC	Yes	PVC	P () ()	1000	STYLE 21179 SH		PVC	Yes	PVC
	PVC		PVC	® N ® CE	600 (🚇); 1000 (靴)	TC – ER		PVC		PVC
	PVC	Yes	PVC		600 (🚇); 1000 (靴)	TC – ER SH	DATA TRANSMISSION	PVC	Yes	PO
	PVC		PVC + NYLON		600 (🎡); 1000 (🎦)	TC - ER NYLON		PVC	Yes	
	PVC	Yes	PVC + NYLON		600 (🎡); 1000 (靴)	TC - ER NYLON SH		PUR PVC	Yes Yes	
	PVC		PVC	CPR 305/11 Eca CE	Uo/U 450/750	TECNIFLEX®		PVC	Yes	PO
	PVC	Yes	PVC	CPR 305/11 Eca CE	Uo/U 450/750	TECNIFLEX [®] SH		PVC	Yes	PO
	PVC		PVC	≌ ₲ (€	Uo/U 1000	TECNIFLEX® BK UL 2570		PVC	Yes	PO
	PVC	Yes	PVC	® () ()	Uo/U 1000	TECNIFLEX [®] BK UL 2570 SH		PVC	Yes	PO
	PVC		PVC	CPR Eca CE	Uo/U 450/750	TECNIFLEX [®] AR			Yes	
POWER&CONTROL SINGLE CORE			PVC	© № @ ⊲har⊳ (€	600 (🎡); 1000 (靴)	MULTINORM / MULTIRATED TYPE MTW – TEW – HAR				

PVC = Polyvinylchloride **PO** = Polyolefin **PUR** = Polyurethane

= UL Listed Standard

= UL Recognized Standard

SP = CSA Standard

CE = CE Standard **⊲HAR** = European Harmonization CPR 305/11 Eca = CPR - ECA Class Standard

WORKING VOLTAGE [V]	RANGE
30	MULTI PAIRS
250 / 350 / Uo/U 300/500	LiYY
250 / 350 / Uo/U 300/500	LIYCY / LIYCY-P
Uo/U 300/500	SENSORS
300	PROFIBUS®
300 / 1000	PROFINET® / ETHERCAT®
300	ETHERNET
30 / 300 / 1000	ETHERNET
30	DRIVE-CLiQ [®]
30 / 300	CANOPEN®
30	INTERBUS®
300	DEVICENET™
30	GND - RS485

REFERENCE STANDARDS

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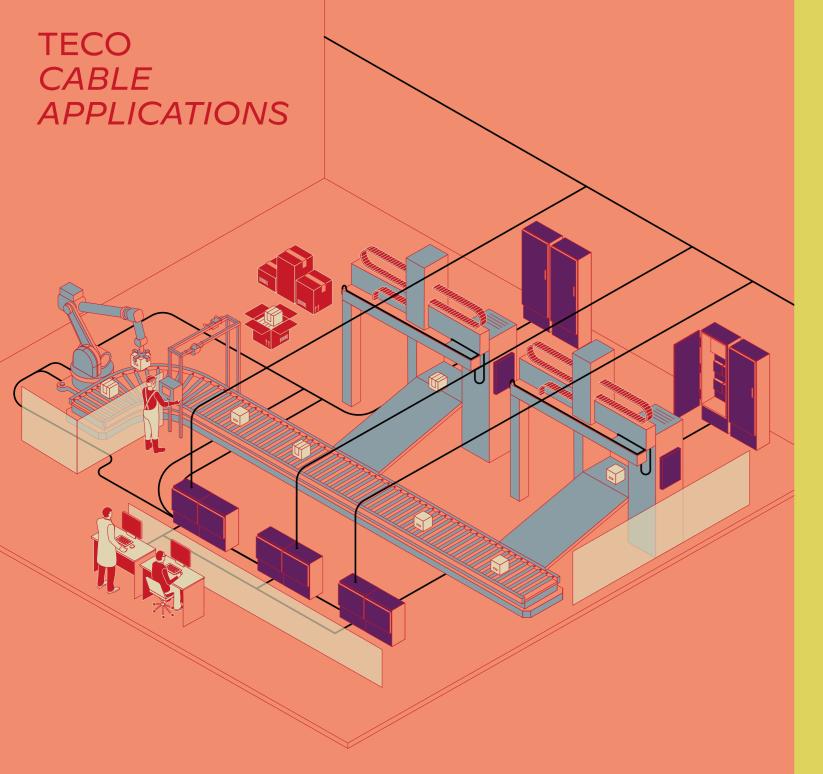
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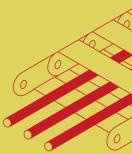
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DYNAMIC APPLICATION







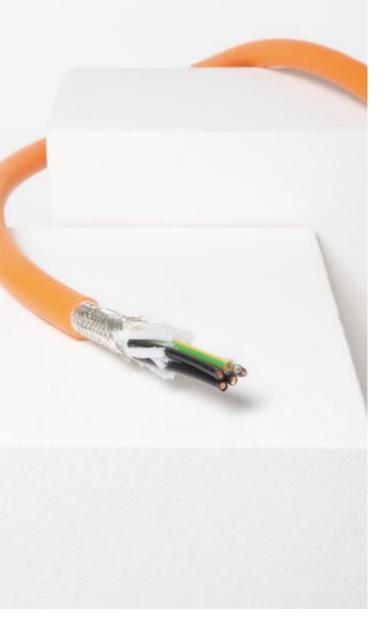
SERVOMOTOR FE, FRX® AND PMXX® PLUS SHIELDED 90°C 1000V UL/CSA DESINA STANDARD®

Our TECO Servo PLUS cables are designed for power supply and servomotor action control systems.

The cited brand names belong to the individual companies and are used only for comparison. Desina® is a registered trademark of the German manufacturers of machine tooling (VDW). These cables are manufactured to the standards set by the biggest players in this sector: Siemens®/Bosch Rexroth®/SEW®.

These highly flexible conductors with external sheaths made of PVC (FRX® PLUS shielded), oil resistant and PUR (PMXX® PLUS shielded), are suited to a wide range of fixed (FE PLUS shielded) and dynamic applications with high-performance in cable chains (FRX® PLUS shielded & PMXX® PLUS shielded).

Highly dynamic specifications, reduced curvature radius, chemical resistance to oil and industrial fluids. The version with **PUR sheath** is also suited to **low-temperature** applications. **Insulation with low dielectric capacity**, as the permanent operating temperature rises up to **90°C**, the range of applications increases; braided pressed copper shielding with wide coverage has a high **EMC protection** against interference from electromagnetic fields.



POWER&CONTROL MULTICORE FRX® PLUS AND PMXX® PLUS 90°C 1000V UL/CSA

This range of power&control multicore cables is ideal for cable chain applications (FRX® and PMXX® PLUS). All cables are specified as highly flexible, with a reduced curvature radius, chemical resistance to oil and industrial fluids, resistance to chemical agents, along with good **resistance to UV rays** (depending on the temperature range).

The version with **PUR sheath** is also suited to low-temperature applications. **Insulation with low dielectric capacity,** since the permanent operating temperature rises up to **90°C** and operating voltage increases to **1000V**, expands the range of applications for all these products. The shielded versions have optimum **EMC** performance against interference from electromagnetic fields.



POWER&CONTROL SINGLE CORE FRX® PLUS AND PMXX® PLUS SHIELDED AND UNSHIELDED 90°C 1000V UL/CSA

These special highly flexible single cores for cable chains are used where flexibility under medium-level mechanical stress is a requirement, along with free movement without traction stress or forced movements in dry and humid environments, also for outdoor use. These cables are designed mainly for machinery manufacturers operating in the export market for: flexible machinery, machine tools, robotics and moving and fixed parts of automated and mobile machinery (FRX® PLUS).

Highly dynamic specifications, reduced curvature radius, chemical resistance to oil and industrial fluids are the main features of these cables in the version with **PUR sheath** (**PMXX® PLUS)**, adding specific performance levels for low-temperature applications.

The range of applications increases with this new version featuring **insulation with low dielectric capacity** as the permanent operating temperature increases up to **90°C.** The shielded versions have optimum **EMC** performance against interference from electromagnetic fields.



ENCODER FRX® PLUS AND PMXX® PLUS SHIELDED AND UNSHIELDED 90°C 300V UL/CSA DESINA STANDARD®

These incremental encoder cables or position feedback cables transmit control pulses for positioning and operating specifications in servomotors.

The cited brand names belong to the individual companies and are used only for comparison. Desina® is a registered trademark of the German manufacturers of machine tooling (VDW).

These cables are manufactured according to the standards set by the biggest players in this sector: **Siemens®/Bosch Rexroth®/** Heidenhain®.

These cables are used to connect tachymeters, brakes and power generators in applications subject to high mechanical stress, in industrial machinery, machine tools, control and automation equipment.

All of these cables are highly flexible with reduced curvature radius and are ideal for **use in cable chains (FRX® PLUS shielded** with PVC sheath) and for high-performance applications also in cable chains (PMXX® PLUS with PUR sheath), which adds specific performance levels for low-temperature applications. These cables can withstand operating temperatures of up to 90°C, which along with low dielectric capacity insulation, extends their wide range of uses.



SIGNAL FRX® PLUS AND PMXX® PLUS SHIELDED AND UNSHIELDED 90°C 300V UL/CSA

These flexible signal cables are used to transmit analog and digital signals in dynamic applications running cable chains and automated machinery, with low dielectric capacity PVC insulation, suitable for use in cable chains where there is a limited presence of oil.

FRX® PLUS, FRX® PLUS shielded, PMXX® PLUS, PMXX® PLUS shielded, PMXX® PLUS

shielded (TP) cables are specially designed for cable chains. Whether shielded or unshielded, these cables may be used in applications where external high-frequency interference can affect the transmission of electrical impulses.

They are used in the construction of machinery and tools, robotics, continuously moving machine components and long-term use, where permanent flexibility is a requirement. These highly flexible data cables have an **external sheath made from shearresistant, low-adhesion PUR,** guaranteeing optimum lifespan and performance.

These cables are also suited for applications at **operating temperatures** up to **90°C**, which along with **Iow dielectric capacity insulation** extends their range of use. The shielded versions have optimum **EMC** performance against interference from electromagnetic fields.

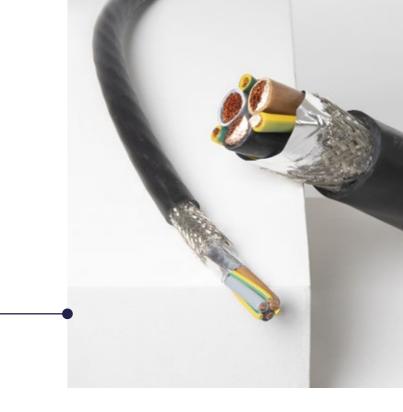


STATIC APPLICATION

INVERTER DRIVEFLEX VFD 2XSLCYK-JB (INVERTER) 90°C 1000V UL/CSA

Our VFD 2XSLCYK-JB cables are certified UL/CSA for connections between motors and variable frequency drives.

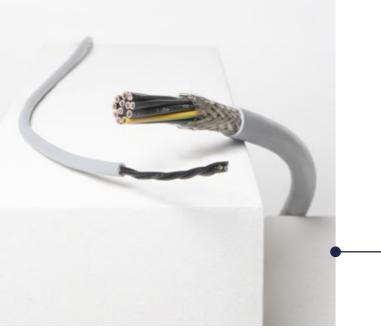




With a black **PVC** sheath, **XLPE** insulation and an operating voltage of **1000V**, these cables are used in static applications subject to temperatures up to **90°C**.

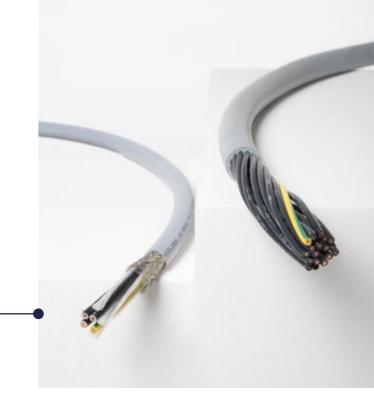
The small-diameter geometric configuration, with the **3 external grounding conductors,** is designed to allow proper and balanced control of the motor by the inverter, with a view to greatly reducing electromagnetic noise.

It is particularly suitable to the heavy, paper and metalworking, industries and where presses are present.



MULTICORE STYLE 21179 SHIELDED AND UNSHIELDED 90°C 1000V UL/CSA MULTICORE TRAY CABLES ER - CIC/TC SHIELDED AND UNSHIELDED UL/CSA NFPA 70/NFPA 79

They may be used to wire machines in a wide range of sectors: metalwork and ceramics, machine tools, conveyor belts, paper production and many others. These cables with a gray PVC sheath have an operating voltage of up to 1000V and are suited to environments where there is a limited presence of oil. These multi core Tray Cables Exposed Run are also used to connect to a building's electricity supply.



UL TC-ER and CSA CIC/TC-ER certification means they are suitable for **placement inside ducts and between two unsupported ducts.**

Also suitable for underground applications (**DIR BUR**) and in humid locations (**up to 75°C WET APPROVAL**). Highly resistant to industrial oils, Sunlight Resistant (**Sun. Res.**), self-extinguising CSA FT4; UL Vertical-Tray Flame Test.



MULTICORE TECNIFLEX® SHIELDED AND UNSHIELDED

MULTICORE TECNIFLEX® BK UL 2570 SHIELDED AND UNSHIELDED

TECNIFLEX® AR

These are suitable for wiring machines or switchboards, or situations requiring reduced diameters. The **sheath** is made of **gray PVC.**

These products are flame-resistant according to IEC 60332-1-2/DIN EN 60332-1-2 standards.

Our Tecniflex® and Tecniflex® shielded cables are multi core power or control cables Uo/U 450/750V, compliant with CPR regulation, class Eca. TECNIFLEX® BK UL 2570 SHIELDED AND UNSHIELDED

TECNIFLEX® AR



Tecniflex® BK UL 2570 UL/CSA multicore cables have an operating voltage of **Uo/U 1000V.** Excellent resistance to industrial oils and flame retardant according to **UL (VW-1) and CSA** (FT1) standards. UV resistant, highly versatile and suitable for a wide range of industrial applications.

In this **armored version**, our Tecniflex[®] AR cables have a **transparent sheath** and physical/mechanical protection of braided zinc/ steel armor with coverage of 65% and, in some cases, 80%.Perfect for application in particularly hostile duct environments. **Certified CPR**, they are ideal not just for industrial uses. SINGLE CORE MULTI-STANDARD/ MULTIRATED TYPE MTW-TEW - HAR UL/CSA

SIGNAL TRANSMISSION

TECO cables of this type are **dual-rated in AWG and mm²;** they can manage up to 1000V and temperatures from **-40°C to +105°C.**

MTW certification also permits their use in contact with industrial oils.

These signal transmission cables are solutions for connecting sensor/ actuator boxes and can be used to connect photocells or inductive or capacitive proximity sensors.



The **conductors** and **sheath** are made of a mix of various types of **PVC** and are color-coded according to the standards used in the manfacture of sensors.

This category also includes **LiYY (unshielded version)** cables and **LiYCY (shielded version)** cables which ensure optimum shielding from electromagnetic interference. Both fitted with insulation, **DIN 47100 coloring** and external **PVC sheath,** they have a **reduced external diameter even with a high number of internal conductors.** Both versions are flame-resistant in accordance with IEC 60332-1-2/DIN EN 60332-1-2 standards.

Suitable for signal transmission, these cables are used to connect electronics, measurement instruments, control/command and signaling applications. The **drain conductor** makes cabling quick and easy.

BUS CABLES

Our BUS cables for mobile or static applications comply with the most commonly used communications protocols in the industrial sector. Furthermore, all are UL and CSA certified to provide maximum versatility of use in diverse cabling applications.

BUS UL/CSA





Various **BUS cables** have **1000V** isolation voltage and, where space is limited, conductor pairs may have a four-point arrangement.

BUS cables for dynamic applications belong to the **FRX® shielded** and **PMXX® shielded** families for use in cable chains. These cables are essential for simplifying the cabling and management of production lines.

The following protocols are supported: **PROFIBUS®, PROFINET®/EtherCAT®, SERCOS III®, Ethernet/EtherNET/IP™, DRIVE-CLiQ®, CANOpen®, INTERBUS®, DeviceNET™, GND RS-485®.**

TECO CABLE ENTRY SYSTEMS



NEW TECO

Based on our experience, it guarantees a perfect integration with any type of cable for the industrial automation.

Designed for fast and safe handling, it ensures efficiency and easy use.

This product range offers **versatility** with a reduced number of codes, which simplifies and improves item selection, orders and stock management for our customers.

PRODUCT RANGE



SPLITTABLE FRAMES

MEMBRANE FRAMES

TPD splittable series allows cables with and without connectors to pass through cabinets. Once assembled, the system guarantees cable strain relief and high IP protection.

Available in both rectangular shape, like the most common industrial connectors, and circular ones, they guarantee maximum application flexibility, also thanks to its numerous certifications. TPS D double membrane plates allow multiple cables without connectors to pass through cabinets. The double membrane guarantees the strain relief and high IP protection.

Available in both rectangular shape, like the most common industrial connectors, and circular ones, they offer maximum application flexibility, also due to numerous certifications.

CABLE FIXINGS

TFP anti-tear cable combs can be used in electrical panels or equipments to keep cables in order. Using the TFP SPACER it is possible to create multi-level cable fasteners.

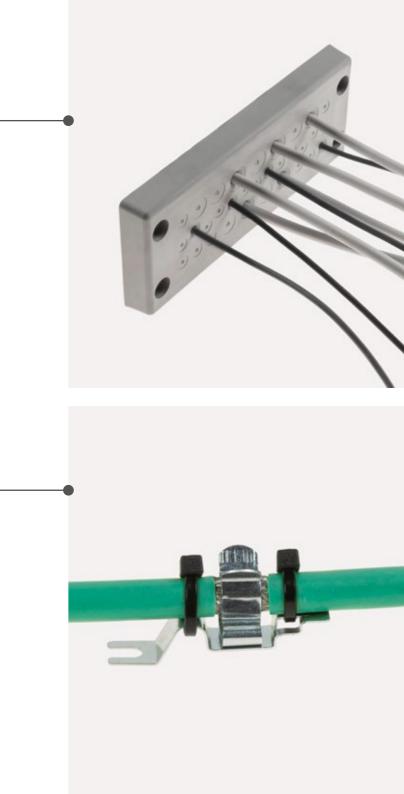
Available with screw or DIN rail mounting.

EMC SHIELDING

TMS shield clamps series allow you to easily and effectively ground the shield of cables with the most common fixings: screw, bar, or DIN rail.

The offer is completed by earthing straps and EMC brackets for cable glands, both divisible and non-divisible.







OUR TECHNOLOGY PARTNER, **ONLY PREMIUM** ONES.





Over time we have become a reference partner for the Italian market of international brands, manufacturers of components for industrial automation.

Relationships based on competence, trust and shared values to guarantee customers the best solutions and an excellent service.

Our work is rewarded by our technology partners.



PARTNERSHIP AWARD



Distributor





Pushing Performance Since 1945





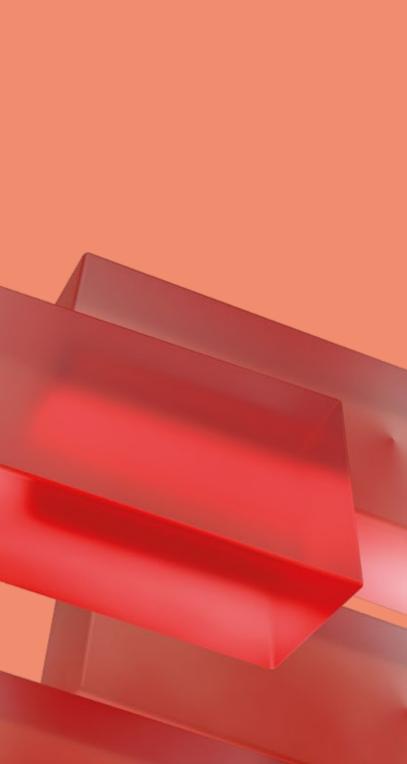


"I look back at the last 40 years with a mixture of pride and astonishment.

TECO team has worked hard, always striving together to serve our customers and partners the best we can.

However, today my focus is on the future: our origins and values, together with our dreams and the passion shown by our team make me believe that the best is yet to come."

Roberto Roversi, TECO Founder & President



BRAND MANIFESTO.

We are **focused on the future,** dynamic, expert, supportive

WE BELIEVE in relationships

as a dynamic rapport based on *listening* and *discussion*

WE CULTIVATE technical skills

and the ability to collaborate and share goals

WE CREATE connections,

a *network of relationships* based on trust, ideas, applications and integration systems



YOU DESIGN, WE CONNECT

We defined a TASK: to offer projects, services and skills that will aid our clients to improve and evolve.

We are realizing a DREAM: be an active part of cutting-edge projects and contribute to ethical and sustainable social development

LET'S GET CONNECTED

TE.CO. S.p.A.

Via Achille Grandi, 1 40013 Castel Maggiore (BO) Italy VAT N. IT 01636081208 Tax Code 03163100377 +39 051 6047311

sales@tecoit.com www.tecoit.com

