Tecni Kabel
SPECIAL ELECTRICAL CABLES

AUTOMATION

Tecni Kabel

UL LISTED

SPECIAL CABLES FOR
AUTOMATION
TECNIKABEL.IT

c UL us
LISTED

Definitions

UL

Underwriters Laboratories Inc. (UL) is a private non-profit entity for the certification of products. Though there is no law which states that a UL marked product must be used, there are States or Municipal Authorities which insist that some products must be tested by a valid and recognised certification entity.

LISTED

This is a device that has undergone an homologation process by an entity whose authority is recognised (e.g. UL or CSA), whose outcome is in the public domain, and which can be sold, installed and/or used as an asset in itself. Over time there is also provision for production control and verification procedures. In practice this is the equivalent of IMQ or VDE homologation on a household appliances or on an individual component.

RECOGNISED (or AWM)

This refers to a component that has undergone an homologation process by an entity whose authority is recognised (e.g. UL or CSA), whose result is in the public domain, but which necessarily forms part of a more complex group which must in turn undergo further homologation to become listed.

NFPA

The National Fire Protection Association is the guarantor of the NEC. This is an association whose aim is to promote and disseminate prevention measures regarding risks due to fire. Although such regulations may not always be transformed into law, the same are usually accepted as professional standards, and are recognised by many courts as such. There is a growing controversy regarding the presence of builders within the NFPA committee, in so far as there are those who maintain that the same leads to a conflict of interest.

NEC

The National Electrical Code (NEC), or NFPA 70, is an American standard that regulates the safe installation of electrical plants and equipment. It represents part of the series of National Fire Codes published by NFPA. Though it is not a legal provision, use of the NEC standard has nevertheless been adopted in local or national laws, as well as by other states in Central America.
The NEC codifies requirements for safe electrical installation in a single and standardised source. NEC standards are updated and published every 3 years. The most recent edition is that of 2008, issued on 15 August 2007. The majority of States adopt the most recent edition within a couple of years of the same being published. However, some jurisdictions regularly omit, modify or add sections in line with their particular requirements.

AHJ

The Authority Having Jurisdiction is a government entity, still in the final constitution phase, which regulates and verifies building construction processes. In the vast majority of cases this refers to the technical entity present in the location where the construction work is being carried out.

NEC and **NFPA** standards state where and how cables should be used. NEC standards set out the prescriptions to be respected when planning or installing electrical products. Very often, however, industrial machines are specifically designed for a given purpose and are produced in limited quantities. This makes it difficult to apply a standardisation on the part of a third entity. When dealing with a machine whose specifications do not comply with any standards issued by a Third Entity, it is appropriate to turn to the NFPA 79, the Electrics standard for Industrial Machines.

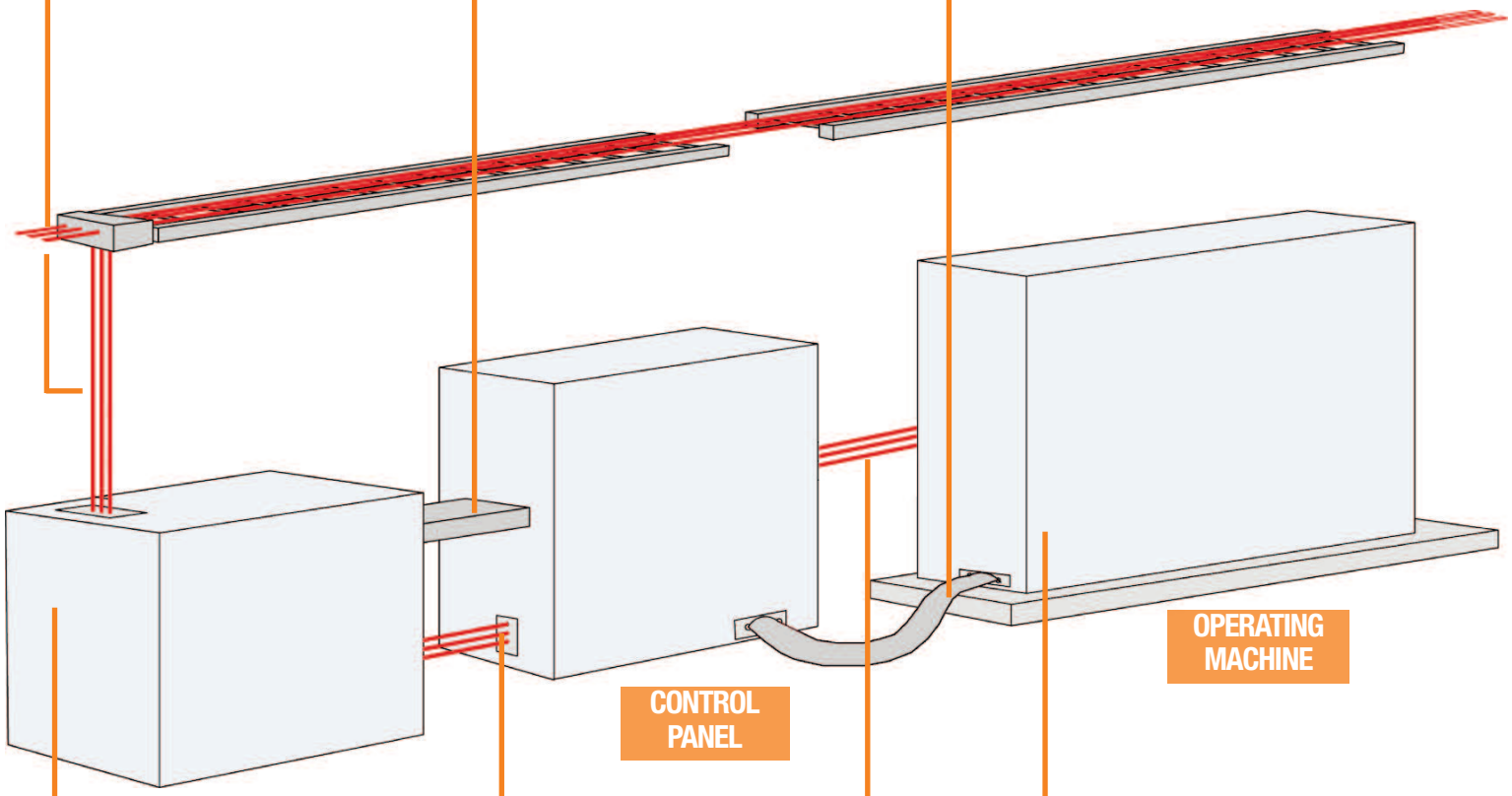
NFPA 79 is applicable to electric and electronic equipment, industrial machine systems or plants with an operating voltage equal to 600 V or less, starting from the connection point to the voltage. NFPA 79 standards therefore supplement and complete NEC (or NFPA 70) requirements, which are used with electrical systems and constructions in general.

NFPA79 standard application diagram

Open raceway or Passageway
B.T. Supply line
THHN -THWN - THW - TW *page 8*
TC - ER *page 14*

Closed raceway
MTW *page 6,11*
THHN -THWN - THW -TW *page 8*
TC - ER *page 14*
Flexible Cords

Sheath UL Listed
MTW *page 6, 11*
THHN -THWN-THW-TW *page 8*
TC - ER *page 14*



Open connection
TC - ER SERVO
page 18

Department electrics panel
Wiring with unipolars
MTW *page 6*
THHN - THWN -THW -TW *page 8*

Open connection
TC - ER *page 14*

Operating machine

If the (UL) machine is homologous I can use c(UL)us , otherwise I have to use (UL) cables where possible

NN.B. UR-AWM cables only in (UL) raceways and sheaths if it is not possible to use c(UL)us LISTED cables

c UL us LISTED

SINGLE CORE

MULTI CORE

TECNIKABEL is one of the European leaders in the special electrical cables sector.

Wherever the future is designed **TECNIKABEL** is in the front line:

- Collaborating with top companies in various sectors
- Fully satisfying customer needs
- Focusing on continual improvement in its quality and reliability targets

note:
The cross-section drawings in the catalogue are indicative and not always to scale.

TecniKabel
SPECIAL ELECTRICAL CABLES

SPECIAL CABLE FOR
UL LISTED
AUTOMATION

SINGLE CORE

Product description and application

Single core cables constructed to UL Listed standard to satisfy the requirements of numerous exporters on the American and Canadian market.
Their use is specific to electrical and electronic equipment and panels, frequency converters, UL machines.

The installation of cables in the UL Listed UNIPOLARS series is recommended for fixed laying utilisations. It can also be carried out in the presence of average mechanical stress or in slow moving dynamic applications.
The cable includesa PVC undersheath insulation in polyamide that guarantees excellent resistance to cooling oils, cutting oils, hydrocarbons, humidity and inclement weather.

The **SINGLE CORE** UL Listed series comprises:

MTW

THWN - THHN - THW -TW

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MTW

CABLE SPECIFICATIONS

Leads	Flexible Copper
Insulation	PVC in conformity with UL (Type A)
	PVC + transparent sheath in Nylon in conformity with UL (Type B)
Identification of leads	Coloured

TECHNICAL DATA

Test voltage	600 V
Operating temperature	- 20°C ÷ + 90°C (fixed laying)

REFERENCE STANDARDS

UL TYPE	NEC Art. 310 - UL1063
Fire Resistance	VW-1 for UL
Resistance to oils and hydrocarbons	UL 1581 – VDE 0472 part 803 A/B – HD 22.10 S1 – CNOMO E.03.40.150N
Resistance to water	UL 1581 – IEC 60811
CE Directives	Product complies with standards on low voltage 72/23/CEE

European Directive 2002/95/CE (RoHs – Reduction of Hazardous Substance) and 2002/96/CE (WEEE – Waste from Electrical and Electronic Equipment)

All the MTW can be requested with ***sections larger*** *than those indicated*

MTW 90°C 600 V Type A PVC Insulation

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
224MTWA01x	AWG 22	2.45	3.1
231MTWA01x	AWG 20	2.65	5.3
238MTWA01x	AWG 18	2.9	8.3
243MTWA01x	AWG 16	3.15	12
250MTWA01x	AWG 14	4.3	18.9
263MTWA01x	AWG 12	4.8	30.2
269MTWA01x	AWG 10	5.4	47
278MTWA01x	AWG 8	7.0	76.1
283MTWA01x	AWG 6	7.9	118.8
288MTWA01x	AWG 4	9.5	188.7
292MTWA01x	AWG 2	11.3	293.5
296MTWA01x	AWG 1/0	14.7	482.1
297MTWA01x	AWG 2/0	16.0	611.3
29AMTWA01x	AWG 3/0	17.5	758.1
29BMTWA01x	AWG 4/0	19.3	995.6

MTW 90°C 600 V Type B PVC Insulation + Nylon

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
224MTWB01x	AWG 22	2.0	3.1
231MTWB01x	AWG 20	2.3	5.3
238MTWB01x	AWG 18	2.6	8.3
243MTWB01x	AWG 16	2.8	12
250MTWB01x	AWG 14	3.1	18.9
263MTWB01x	AWG 12	3.6	30.2
269MTWB01x	AWG 10	4.4	47
278MTWB01x	AWG 8	5.8	76.1
283MTWB01x	AWG 6	6.5	118.8
288MTWB01x	AWG 4	8.7	188.7
292MTWB01x	AWG 2	10.7	293.5
296MTWB01x	AWG 1/0	13.9	482.1
297MTWB01x	AWG 2/0	14.9	611.3
29AMTWB01x	AWG 3/0	16.0	758.1
29BMTWB01x	AWG 4/0	18.5	995.6

x letter that defines colour

c UL us LISTED

THHN - THWN - THW - TW

CABLE SPECIFICATIONS

Leads	Flexible Copper
Insulation	PVC in conformity with UL (Type A)
	PVC + transparent sheath in Nylon in conformity with UL (Type B)
Identification of leads	Coloured

TECHNICAL DATA

Test voltage	600 V
Operating temperature	- 20°C ÷ + 90°C (fixed laying)

REFERENCE STANDARDS

UL TYPE	NEC Art. 310 - UL83
Fire Resistance	VW-1 per UL
Resistance to oils and hydrocarbons	UL 1581 – VDE 0472 part 803 A/B – HD 22.10 S1 – CNOMO E.03.40.150N
Resistance to water	UL 1581 – IEC 60811
CE Directives	Product in conformity with standards on low voltage 72/23/CEE
EMC 89/336 Directives	Electromagnetic compatibility, to obtain maximum results in terms of reduction in interferences on radio frequency (European directive EMC 89/336), the connection of the shield must comply with the instructions provided by the individual builders of electrical equipment

European Directive 2002/95/CE (RoHs – Reduction of Hazardous Substance) and 2002/96/CE (WEEE – Waste from Electrical and Electronic Equipment)

*All the THHN -THWN -THW -TW can be requested with **sections larger** than those indicated*

TW 60°C 600 V **Type A** PVC Insulation

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
250TW01x	AWG 14	3.7	18.9
263TW01x	AWG 12	4.5	30.2
269TW01x	AWG 10	5.0	47
278TW01x	AWG 8	6.5	76.1
283TW01x	AWG 6	8.5	118.8
288TW01x	AWG 4	10.6	188.7
292TW01x	AWG 2	12.5	293.5
296TW01x	AWG 1/0	15.5	482.1
297TW01x	AWG 2/0	16.6	611.3
29ATW01x	AWG 3/0	19.0	758.1
29BTW01x	AWG 4/0	20	995.6

THW 75°C 600 V **Type A** PVC Insulation

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
250THW01x	AWG 14	4.3	18.9
263THW01x	AWG 12	4.8	30.2
269THW01x	AWG 10	5.5	47
278THW01x	AWG 8	7.5	76.1
283THW01x	AWG 6	8.5	118.8
288THW01x	AWG 4	10.6	188.7
292THW01x	AWG 2	12.5	293.5
296THW01x	AWG 1/0	15.5	482.1
297THW01x	AWG 2/0	16.6	611.3
29ATHW01x	AWG 3/0	19.0	758.1
29BTHW01x	AWG 4/0	20	995.6

THHN - THWN 90°C 600 V **Type B** PVC Insulation + Nylon

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
250THHN01x	AWG 14	3.1	18.9
263THHN01x	AWG 12	3.6	30.2
269THHN01x	AWG 10	4.4	47
278THHN01x	AWG 8	5.8	76.1
283THHN01x	AWG 6	6.5	118.8
288THHN01x	AWG 4	8.7	188.7
292THHN01x	AWG 2	10.7	293.5
296THHN01x	AWG 1/0	14.0	482.1
297THHN01x	AWG 2/0	15.0	611.3
29ATHHN01x	AWG 3/0	16.1	758.1
29BTHHN01x	AWG 4/0	18.6	995.6

x letter that defines colour

c UL us LISTED

UL LISTED **MULTICORE**

MULTICORE

Product description and application

Multicore cables made to UL Listed standard to satisfy the needs of a wide variety of exporters on the American market.
Their use is specific to electrical and electronic panels and equipment as well as frequency converters, UL machines and they are assembled in open raceways or suspended with the help of a bearing cable.

The installation of cables in the UL Listed MULTICORE series is recommended for uses in fixed laying and the same can also be requested for mobile laying. Installation can also be carried out in the presence of average mechanical stress or in very modest dynamic applications.
The cable comprises a PVC insulation undersheath in polyamide that guarantees resistance to cooling oils, cutting oils, hydrocarbons, UV rays, humidity and inclement weather.

The **MULTICORE** UL LISTED series comprises

MTW

Tray Cable TC-ER

Tray Cable TC-ER SERVO

MTW

CABLE SPECIFICATIONS

Leads	Flexible Copper
Insulation	PVC in compliance with UL
Identification of leads	Coloured
Shield (optional)	Copper plait with at least 85% cover
Sheath	PVC in compliance with UL
External sheath colour	On request

TECHNICAL DATA

Test voltage	600 V
Operating temperature	- 20°C ÷ + 90°C (fixed laying)

REFERENCE STANDARDS

UL Type	NEC Art. 310 - UL 1063
Resistance Fire	VW-1 for UL
Resistance to oils and hydrocarbons	UL 1581 – VDE 0472 part 803 A/B – HD 22.10 S1 – CNOMO E.03.40.150N
Resistance to water	UL 1581 – IEC 60811
CE Directives	Product in compliance with standards on low voltage 72/23/CEE
EMC 89/336 Directives	Electromagnetic compatibility, to obtain maximum results in terms of reduction of radio frequency interferences (European directive EMC 89/336), the connection of the shield must comply with the instructions provided by the individual builders of electrical equipment

European Directives 2002/95/CE (RoHs – Reduction of Hazardous Substance) and 2002/96/CE (WEEE – Waste from Electrical and Electronic Equipment)

*All multipolars can also be requested for **mobile laying***

c UL us LISTED

MULTICORE

MTW

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
338MTW03	FR(3 G AWG18)R	8.6	24.900
338MTW04	FR(4 G AWG18)R	9.4	33.20
338MTW05	FR(5 G AWG18)R	10.2	41.500
338MTW07	FR(7 G AWG18)R	11.2	58.100
338MTW12	FR(12 G AWG18)R	15.2	99.601
338MTW18	FR(18 G AWG18)R	17.6	149.401
338MTW25	FR(25 G AWG18)R	22	207.501
343MTW03	FR(3 G AWG16)R	9.4	38.906
343MTW03	FR(4 G AWG16)R	10.2	51.875
343MTW05	FR(5 G AWG16)R	11.1	64.843
343MTW07	FR(7 G AWG16)R	12.2	90.781
343MTW12	FR(12 G AWG16)R	16.5	155.624
343MTW18	FR(18 G AWG16)R	19.3	233.436
343MTW25	FR(25 G AWG16)R	24.2	324.217
350MTW03	FR(3 G AWG14)R	10.2	61.961
350MTW04	FR(4 G AWG14)R	11.2	82.615
350MTW07	FR(7 G AWG14)R	13.4	144.577
363MTW03	FR(3 G AWG12)R	11.3	97.978
363MTW04	FR(4 G AWG12)R	12.4	130.638
363MTW07	FR(7 G AWG12)R	14.9	228.616
369MTW04	FR(4 G AWG10)R	15	203.671
378MTW04	FR(4 G AWG8)R	18.4	334.466
383MTW04	FR(4 G AW6)R	24.7	529.443
388MTW04	FR(4 G AWG4)R	29.5	964.119
392MTW04	FR(4 G AWG2)R	31.5	1342.794

SPECIAL CABLE FOR
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MTW

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
538MTW03	FR(3 G AWG18)ST/R	9	43.841
538MTW04	FR(4 G AWG18)ST/R	9.8	54.316
538MTW05	FR(5 G AWG18)ST/R	10.8	76.923
538MTW07	FR(7 G AWG18)ST/R	11.8	97.431
538MTW12	FR(12 G AWG18)ST/R	15.8	154.625
538MTW18	FR(18 G AWG18)ST/R	18.2	214.050
538MTW25	FR(25 G AWG18)ST/R	22.6	289.172338
543MTW03	FR(3 G AWG16)ST/R	10	73.345
543MTW04	FR(4 G AWG16)ST/R	10.8	89.346
543MTW05	FR(5 G AWG16)ST/R	11.8	104.301
543MTW07	FR(7 G AWG16)ST/R	12.8	135.279
543MTW12	FR(12 G AWG16)ST/R	17.2	216.749
543MTW18	FR(18 G AWG16)ST/R	20	304.701
543MTW25	FR(25 G AWG16)ST/R	24.8	412.363
550MTW03	FR(3 G AWG14)ST/R	10.8	99.433
550MTW04	FR(4 G AWG14)ST/R	11.8	123.115
550MTW07	FR(7 G AWG14)ST/R	14	195.863
563MTW03	FR(3 G AWG12)ST/R	12	138.931
563MTW04	FR(4 G AWG12)ST/R	13	176.835
563MTW07	FR(7 G AWG12)ST/R	15.5	284.401
569MTW04	FR(4 G AWG10)ST/R	15.6	259.347
578MTW04	FR(4 G AWG8)ST/R	19	402.266
583MTW04	FR(4 G AWG6)ST/R	25.5	656.248
588MTW04	FR(4 G AWG4)ST/R	30.4	1114.799
592MTW04	FR(4 G AWG2)ST/R	32.4	1500.260

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TRAY CABLE UL TC-ER (Exposed Run)

CABLE SPECIFICATIONS

Leads	Flexible Copper
Insulation	PVC + transparent sheath in Nylon in compliance with UL
Identification of leads	Coloured
Shield (optional)	Copper Plait with at least 85 % cover
Sheath	PVC in compliance with UL
External sheath colour	On request

TECHNICAL DATA

Test voltage	600 V
Operating temperature	- 20°C ÷ + 90°C (fixed positioning)

REFERENCE STANDARDS

UL Type	UL 1277
Fire Resistance	VW-1 per UL
Resistance to oils and hydrocarbons	UL 1581 – VDE 0472 part 803 A/B – HD 22.10 S1 – CNOMO E.03.40.150N
Resistance to water	UL 1581 – IEC 60811
CE Directives	Product in compliance with standards on low voltage 72/23/CEE
EMC 89/336	Directives Electromagnetic compatibility to obtain maximum results in terms of reduction of radio frequency interferences (European directive EMC 89/336), the connection of shield must comply with the instructions provided by the individual builders of electrical equipment

European Directives 2002/95/CE (RoHs – Reduction of Hazardous Substance) and 2002/96/CE (WEEE – Waste from Electrical and Electronic Equipment)

*All the multipolars can also be requested for **mobile laying***

TRAY CABLE UL TC-ER (Exposed Run)

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
338FTC03N	FR(3 G AWG18)R	7.6	24.906
338FTC04N	FR(4 G AWG18)R	8.3	33.208
338FTC05N	FR(5 G AWG18)R	9	41.510
338FTC07N	FR(7 G AWG18)R	9.7	58.113
338FTC12N	FR(12 G AWG18)R	12.4	99.623
338FTC18N	FR(18 G AWG18)R	15.2	149.435
338FTC25N	FR(25 G AWG18)R	18	207.548
343FTC03N	FR(3 G AWG16)R	8.4	38.915
343FTC04N	FR(4 G AWG16)R	9.2	51.887
343FTC05N	FR(5 G AWG16)R	10	64.859
343FTC07N	FR(7 G AWG16)R	10.70	90.802
343FTC12N	FR(12 G AWG16)R	14.7	155.661
343FTC18N	FR(18 G AWG16)R	16.9	233.492
343FTC25N	FR(25 G AWG16)R	20.1	324.294
350FTC03N	FR(3 G AWG14)R	9.3	61.971
350FTC04N	FR(4 G AWG14)R	10.2	82.628
350FTC07N	FR(7G AWG14)R	11.9	144.598
363FTC03N	FR(3 G AWG12)R	10.4	97.978
363FTC04N	FR(4 G AWG12)R	11.3	130.638
363FTC07N	FR(7 G AWG12)R	14.2	228.616
369FTC04N	FR(4 G AWG10)R	14.5	203.671
378FTC04N	FR(4 G AWG8)R	18.1	334.466
383FTC04N	FR(4 G AWG6)R	22.8	589.131
388FTC04N	FR(4 G AWG4)R	28.2	964.119
392FTC02N	FR(4 G AWG2)R	30.8	1342.796

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TRAY CABLE UL TC-ER (Exposed Run)

TECNIKABEL CODE	SECTION	NOMINAL O.D. Ø mm	COPPER WEIGHT kg/km
538FTC03N	FR(3 G AWG18)ST/R	8	40.644
538FTC04N	FR(4 G AWG18)ST/R	8.7	51.219
538FTC05N	FR(5 G AWG18)ST/R	9.4	61.842
538FTC07N	FR(7 G AWG18)ST/R	10.2	79.372
538FTC12N	FR(12 G AWG18)ST/R	13	143.868
538FTC18N	FR(18 G AWG18)ST/R	15.8	203.401
538FTC25N	FR(25 G AWG18)ST/R	18.6	272.744
543FTC03N	FR(3 G AWG16)ST/R	8.8	56.973
543FTC04N	FR(4 G AWG16)ST/R	9.6	72.388
543FTC05N	FR(5 G AWG16)ST/R	10.4	86.899
543FTC07N	FR(7 G AWG16)ST/R	11.2	114.590
543FTC12N	FR(12 G AWG16)ST/R	15.3	209.535
543FTC18N	FR(18 G AWG16)ST/R	17.5	294.577
543FTC25N	FR(25 G AWG16)ST/R	20.9	428.665
550FTC03N	FR(3 G AWG14)ST/R	9.7	82.530
550FTC04N	FR(4 G AWG14)ST/R	10.6	105.745
550FTC07N	FR(7 G AWG14)ST/R	12.5	186.170
563FTC03N	FR(3 G AWG12)ST/R	11	132.403
563FTC04N	FR(4 G AWG12)ST/R	11.9	171.287
563FTC07N	FR(7 G AWG12)ST/R	14.8	278.156
569FTC04N	FR(4 G AWG10)ST/R	15.1	257.170
578FTC04N	FR(4 G AWG8)ST/R	18.7	399.662
583FTC04N	FR(4 G AWG6)ST/R	23.6	699.441
588FTC04N	FR(4 G AWG4)ST/R	29.2	1140.262
592FTC02N	FR(4 G AWG2)ST/R	31.8	1544.908

c UL us
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TRAY CABLE UL TC-ER (Exposed Run) SERVO

CABLE SPECIFICATIONS

Leads	Flexible Copper
Insulation	PVC + transparent sheath in Nylon in compliance with UL
Identification of leads	Coloured
Couples shield (optional)	Aluminium/plastic belt +continuity+copper plait with at least 85% cover
Total shield (optional)	Copper plait with at least 85% cover
Sheath	PVC in compliance with UL
External sheath colour	On request

TECHNICAL DATA

Test voltage	600 V
Operating temperature	- 20°C ÷ + 90°C (fixed positioning)

REFERENCE STANDARDS

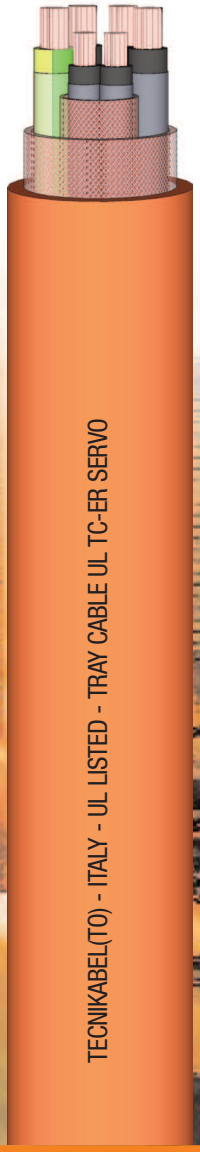
UL Type	UL 1277
Fire Resistance	VW-1 per UL
Resistance to oils and hydrocarbons	UL 1581 – VDE 0472 part 803 A/B – HD 22.10 S1 – CNOMO E.03.40.150N
Resistance to water	UL 1581 – IEC 60811
CE Directives	Product in compliance with standards on low voltage 72/23/CEE
EMC 89/336 Directives	Electromagnetic compatibility to obtain maximum results in terms of reduction of radio frequency interferences (European directive EMC 89/336), the connection of shield must comply with the instructions provided by the individual builders of electrical equipment

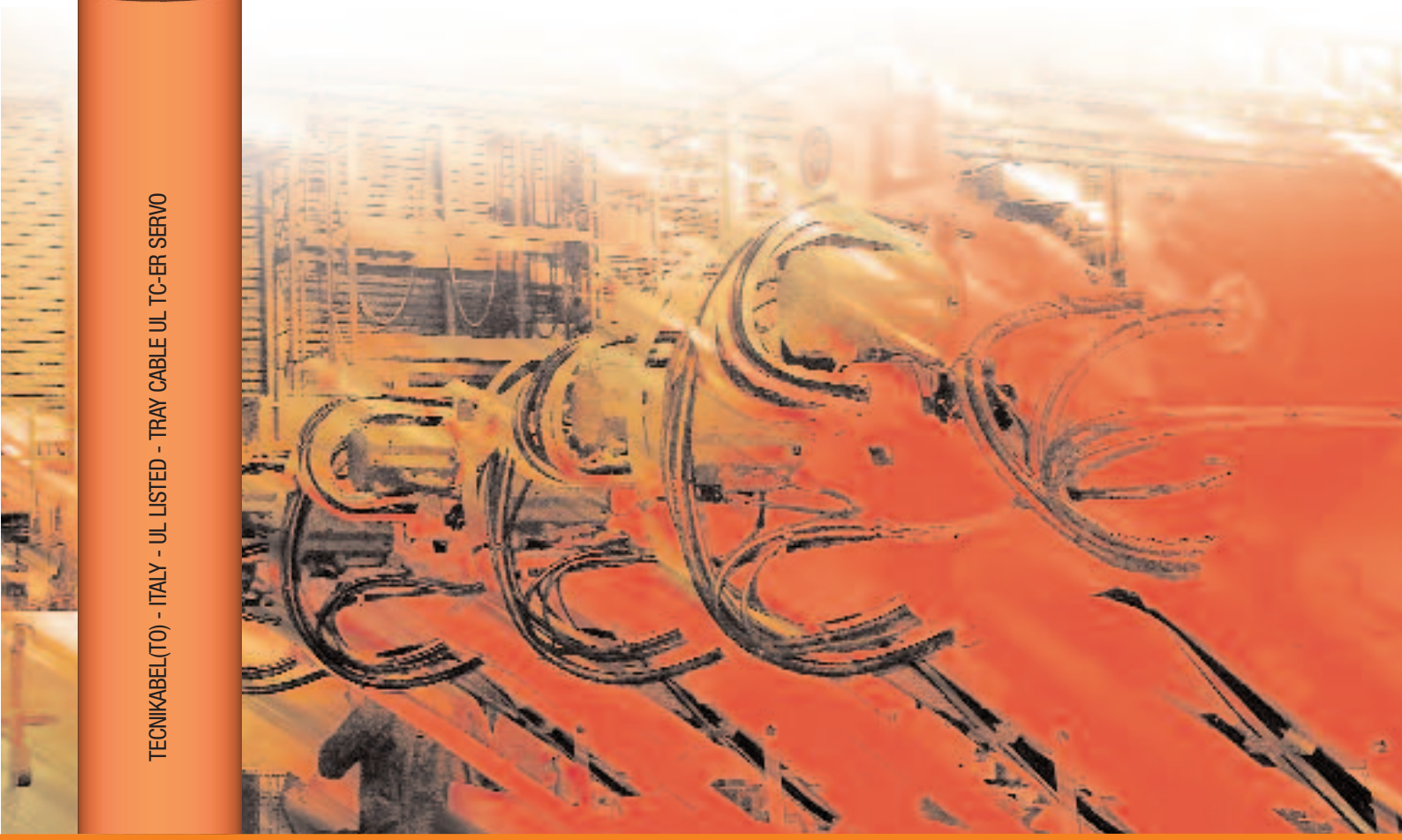
European Directives 2002/95/CE (RoHs – Reduction of Hazardous Substance) and 2002/96/CE (WEEE – Waste from Electrical and Electronic Equipment)

*All the multipolars can also be requested for **mobile laying***

TRAY CABLE UL TC-ER (Exposed Run) SERVO

TECNIKABEL CODE	SECTION	NOMINAL Ø mm	COPPER WEIGHT kg/km
543FTCS01	FR[4 G AWG16+ (2xAWG18)SNST]STR	12.4	126
550FTCS01	FR[4 G AWG14+ (2xAWG18)SNST]STR	13.2	159
563FTCS01	FR[4 G AWG12+ (2xAWG16)SNST]STR	15.3	226
569FTCS01	FR[4 G AWG10+ (2xAWG16)SNST]STR	17.3	307
578FTCS01	FR[4 G AWG8+ (2xAWG16)SNST]STR	20.8	480
583FTCS01	FR[4 G AWG6+ (2xAWG16)SNST]STR	25.5	758
588FTCS01	FR[4 G AWG4+ (2xAWG16)SNST]STR	31	1195
592FTCS01	FR[4 G AWG2+ (2xAWG16)SNST]STR	35	1596
543FTCS02	FR[4 G AWG16+ 2(2xAWG18)SNST]STR	15	118.8
550FTCS02	FR[4 G AWG14 + 2(2xAWG18)SNST]STR	15.7	199
563FTCS02	FR[4 G AWG14+(2xAWG18)SNST+(2xAWG16)ST]STR	17	266
569FTCS02	FR[4 G AWG10+(2xAWG18)SNST+(2xAWG16)ST]STR	19.4	377
578FTCS02	FR[4 G AWG8+ (2xAWG18)SNST+(2xAWG16)ST]STR	23.4	515
583FTCS02	FR[4 G AWG6+ 2(2xAWG16)SNST]STR	27.5	839





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