

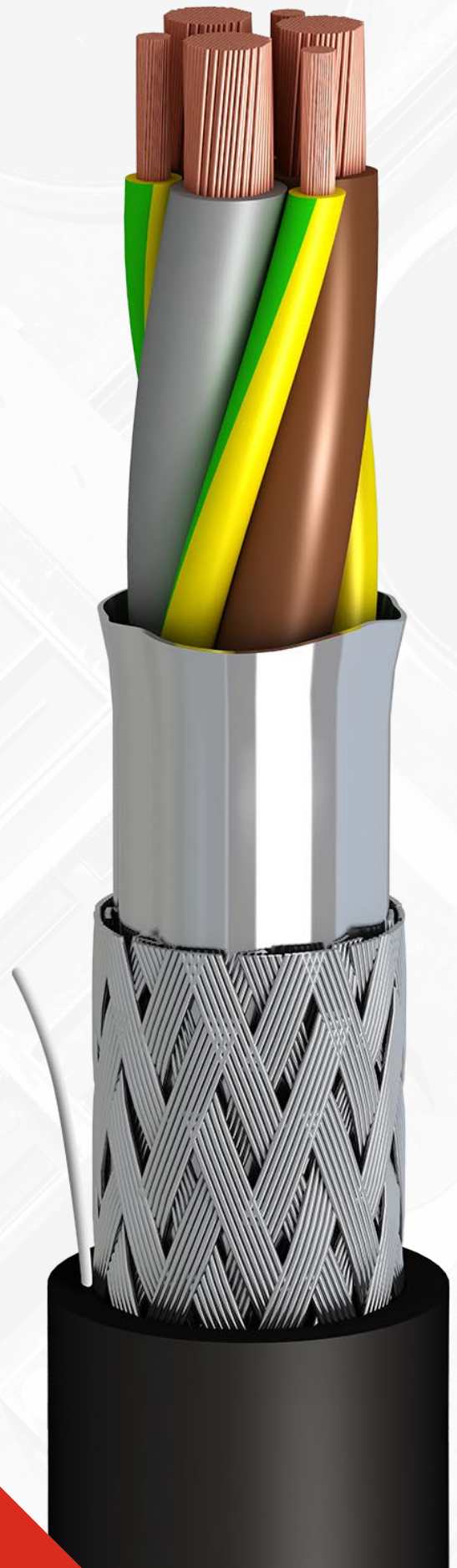
TROPAC



Power Flex Industrial Cables

Product Guide

Performance Certainty.



Industrial Cables

Flexible, reliable, ready for industry.

Power Flex cables are designed for low voltage industrial installations where performance and durability are essential. With European engineering and local availability, the range supports everything from submersible pumps to switchboards and control systems. Built for flexibility, chemical resistance and long service life, Power Flex simplifies specification and supports consistent performance across diverse environments.

Specify with confidence.
Backed by TROPAC-scale.



Distributed by **TROPAC**

POWERFLEX® RV-K

RELIABLE 1KV SUBMERSIBLE POWER

The RV-K XLPE 1kV cable secures critical fixed installations in wet or dry conditions. Its durable AD8-rated construction mitigates risk of electrical failure while the 90°C XLPE insulation and strong chemical resistance extend service life and minimize system downtime.



KEY BENEFITS

Guaranteed Compliance	IEC 60502 certification simplifies project approval
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CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	XLPE Cross-linked polyethylene DIX-3 acc. to IEC 60502-1 & HD 603-1
Outer Jacket	Flexible AD8 Composite Compound PVCST2 acc. to IEC 60502-1
Voltage	0.6/1 kV
Minimum Bending Radius	5 x cable diameter

PROPERTIES

Submersible Rating	AD8 Submersion up to 200M
Environmental Resistance	UV Resistant UNE 211605, Good resistance to chemicals & oils
Fire Performance	Flame retardant IEC 60332-1, CPR: Eca, Reduced Halogen Emission, Chlorine <15%
Temperature Range	-40C - +90C
Maximum	Max. short-circuit temperature 250C 5 sec.

APPLICATIONS

Bore Pumping Applications and submersible pump installations, underwater pond lighting
Fixed installations in Entertainment Projects; Music, Theatre Lighting and Stage Power Supply
Indoor & Outdoor installations, damp conditions & permanent submersion. Marine Applications BV approved
Low voltage industrial-type connections: Urban grids, buildings, installations, with or without conduit
High Flexibility, light & easy to install even in difficult layouts, efficient cable routing

PACKAGING

Roll Lengths	1000M, 500M, 100M, Cut Lengths
Cable Marking	Top Cable Powerflex RV-K 0.6/1 kV XGX.X(size) mm ² UNE 21123 IEC 60502 Aenor Kema-Keur E-022-14-3795 CE / R2V Soup le 0.6/1 kV XGX,5 mm ² /90°C DOP TC004 Eca made in Spain 33460(batch) YEARXXXX XXXX(meter)
	Meter marked

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
RVK02/1.5	2X1.5	8.2	24	34	90
RVK02/2.5	2X2.5	9.2	32	20.4	120
RVK02/4.0	2X4.0	10.3	43	12.7	165
RVK03/1.5	3G 1.5	8.9	20	34	110
RVK03/2.5	3G 2.5	9.8	27	20.4	145
RVK03/4.0	3G 4.0	11	36	12.7	200
RVK03/6.0	3G 6.0	12.1	46	8.45	265
RVK03/10	3G 10	14.3	66	4.89	405
RVK04/1.5	4G 1.5	9.7	20	33.9	130
RVK04/2.5	4G 2.5	10.7	27	20.3	175
RVK04/4.0	4G 4.0	12	36	12.6	245
RVK04/6.0	4G 6.0	13.4	46	8.41	330
RVK04/10	4G 10	15.7	66	4.87	505
RVK04/16	4G 16	18.2	87	3.08	750
RVK05/1.5	5G 1.5	10.4	20	33.9	155
RVK05/2.5	5G 2.5	11.6	27	20.3	215
RVK05/4.0	5G 4.0	13.2	36	12.6	300
RVK05/6.0	5G 6.0	14.7	46	8.41	405
RVK05/10	5G 10	17.1	66	4.87	625

XTREM® H07RN-F

500M SUBMERSIBLE HEAVY-DUTY FLEXIBLE POWER

The XTREM® H07RN-F is the industry's ultimate flexible rubber cable, engineered as a single solution for the most aggressive industrial environments. Built with thermosetting rubber insulation (E17/EM2), this cable provides unmatched mechanical strength and guaranteed AD8 permanent submersion capability up to 500 metres. This removes the compliance uncertainty that often accompanies deep-water pump applications and sub-surface mining projects.



KEY BENEFITS

500M Performance	AD8 rating eliminates failure risk in deep-water applications
Drinking Water Certified	Certified for all water types, including Drinking Water, Fresh, Living, Polluted and Salt Water

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Thermosetting rubber insulation type E17 (EN 50363-1) Identification acc. to HD308 & HD186
Outer Jacket	Thermosetting flexible rubber type EM2 acc. EN 50363-1
Voltage	0.6/1 kV
Minimum Bending Radius	<12mm, 3 x cable diameter, >12mm, 4x cable diameter

PROPERTIES

Submersible Rating	500 Meters, AD8 Permanent Submersion & Deep Water Installations
Water types	Drinking water AS/NZ 4020, Fresh, Polluted, Salt Water
Environmental Resistance	Flame retardant IEC 60332-1, CPR: Eca, Reduce Halogen Emission, Chlorine <15%
Fire Performance	-40C - +90C
Temperature Range	Max. short-circuit temperature 250C 5 sec.
Maximum	Maximum Short-Circuit Temperature (250C) 5 seconds

APPLICATIONS

Inline Submersible pumps in deep water installations (AD8), Deep wells, Water filtration and drinking water
Electric motors, CNC Machines, Industrial applications, Factories, Indoor & Outdoor use
Power supply for hand held machinery, including welding, heavy duty extension cords, long service life, reusable
Aquaculture, fish farms, shrimp farms, and „living“ water (with presence of micro-organisms and aquatic species)

PACKAGING

Roll Lengths	1000M, 500M, 100M, Cut Lengths
Cable Marking	TOP CABLE XTREM H07RN-F 450/750V 3G2,5 mm ² AENOR <HAR> IEC 60245 TOP CABLE Xtrem H07RN-F 450/750 V 3G2,5 mm ² E-022-14-10764 CE DOP TCO03 Eca MADE IN SPAIN 3624 2023YEAR 2797(Meter Marked)
	Meter marked

XTREM® H07RN-F

500M SUBMERSIBLE HEAVY-DUTY FLEXIBLE POWER

Beyond its extreme water rating, XTREM® offers a crucial advantage in Total Cost of Ownership (TCO). The robust outer sheath provides exceptional, long-term resistance to abrasive wear, oils, chemicals, and continuous UV exposure. This resilience minimizes cable replacement costs and drastically reduces system downtime. The extreme operating range of -40°C to +90°C ensures peak operational performance and flexibility.



Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
H071C16.TC	1 x 16	11.2	110	2.68	775
H071C25.TC	1 x 25	13	147	1.73	1080
H071C35.TC	1 x 35	14.6	183	1.23	1610
H071C50.TC	1 x 50	17	231	0.86	2100
H071C70.TC	1 x 70	19.1	292	0.603	185
H071C95.TC	1 x 95	21.4	351	0.457	280
H071C120.TC	1 x 120	23.3	418	0.357	395
H072C1.0.TC	2 x 1	7.7	19	45.1	75
H072C1.5.TC	2 x 1.5	8.5	24	34	100
H072C2.5.TC	2 x 2.5	10.1	32	20.4	145
H072C4.0.TC	2 x 4.0	11.8	43	12.7	200
H073G1.0.TC	3G 1	8.3	16	45.1	95
H073G1.5.TC	3G 1.5	9.3	20	34	125
H073G2.5.TC	3G 2.5	11.1	27	20.4	185
H073G4.0.TC	3G 4.0	12.7	36	12.7	260
H073G6.0.TC	3G 6.0	14.3	46	8.45	335
H073G10.TC	3G 10	19.6	66	4.42	630
H074G1.5.TC	4G 1.5	10.4	20	33.9	160
H074G2.5.TC	4G 2.5	12.1	27	20.3	225
H074G4.0.TC	4G 4.0	14	36	12.6	320
H074G6.0.TC	4G 6.0	15.7	46	8.41	425
H074G10.TC	4G 10	21.4	66	4.87	775
H074G16.TC	4G 16	24.6	87	2.8	1080
H074G25.TC	4G 25	29.5	116	1.8	1610
H074G35.TC	4G 35	32.7	144	1.28	2100
H075G1.5.TC	5G 1.5	11.3	20	33.9	185
H075G2.5.TC	5G 2.5	13.5	27	20.3	280
H075G4.0.TC	5G 4.0	15.6	36	12.6	395
H075G6.0.TC	5G 6.0	17.7	46	8.41	530
H075G10.TC	5G 10	23.9	66	4.87	945
H077G1.5.TC	7G 1.5	15	20	30.7	315
H077G2.5.TC	7G 2.5	17.1	27	18.4	435
H0712G1.5.TC	12G 1.5	17.5	20	30.7	445

TOPDRIVE® VSD (EMC) ROZ1-K (AS)

LSZH DOUBLE SCREENED VSD CABLE

TOPDRIVE® VSD double-screened cable guarantees signal integrity by eliminating EMI and protecting sensitive drives from electrical noise. The LSZH jacket is critical for asset protection, ensuring zero corrosive gas emission (IEC 60754-2) during a fire event.



KEY BENEFITS

Asset Security	LSZH actively prevents fire-related corrosion damage to adjacent electronics
Global Deployment	ABS, DNVGL and BV certifications simplify international maritime and offshore project approval

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	XLPE Cross-linked polyethylene type HF-XLPE-90 acc. to IEC 60092-360
Protective layer	AL-POS
Screen	Tinned copper braid screen and ripcord
Outer Jacket	Low Smoke Halogen Free Polyolefin SHF1 Type ST8 (IEC 60092-360), Black
Voltage	0.6/1 kV
Minimum Bending Radius	10 x cable diameter
Approvals	ABS, DNV-GL, Bureau Veritas, Lloyd's Register, CE, RoHS

PROPERTIES

Environmental Resistance	UV Resistant, resistance to chemicals & oils
Flame retardant	Flame retardant IEC 60332-1
Fire retardant	Fire non-propagation IEC 60332-3
Low smoke halogen free	LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Light transmittance	>80%
Construction Products Regulation CPR	Cca-s1a, d1, a1
Service temperature	Maximum 90 Degrees Celsius
Maximum	Max. Short circuit temperature 250°C (5 sec.)
Minimum	-40°C (Fixed, protected installations)

APPLICATIONS

VFD Motors and drives, variable speed drive motors, connection to pump sheds, e.g., agriculture
Computer labs, data centres, telecommunications and networking power supply
Marine use, commercial vessels, international waters vessels, small and large vessels
Maritime projects where LSZH power cables are required by law
Safety cable in the event of fire does not emit toxic or corrosive gases. Protection for public health and protection of electronic equipment
Airports, hospitals, schools, public places where safety is required

TOPFLEX® MS TRI-RATED / H07V2-K

UNIVERSAL 90°C PANEL WIRE

TOPFLEX® MS is the essential Tri-Rated wire securing acceptance for international machine and panel builds (UL 758, CSA, BS 6231). The 90°C T13 insulation minimises thermal risk in high-density switchgear.



KEY BENEFITS

Code Compliance	Tri-Rated status eliminates the complexity of global panel certification
Installation Speed	Extra flexibility accelerates installation time and reduces labour costs

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Extra slide flexible PVC (High service temperature) T13 Class 43 UL 1581
Voltage	0.6/1 kV
Bend Radius	5 x cable diameter
Standards	UL 758, CSA C22.2, IEC 60332-1, IEC 60228, <HAR>, UL Listed, RoHS, CE, CPR (Construction Products Regulation)

PROPERTIES

Water resistance	AD3 Sprays
Environmental Resistance	Acceptable resistance to chemicals/oils
Fire Performance	Flame retardant IEC 60332-1 Non propagation VW-1, FT1 & FT2 acc. to UL 2556, CPR: Eca
Temperature Range	-40°C to +90°C / 105°C
Maximum	Max. Short circuit temperature 160°C (5 sec.)

PACKAGING

Roll Lengths	100M
Cable Marking	TOPFLEX MS TRI-RATED H07V2-K 1x10 AENOR <HAR> DoP TCO19 Eca / Topflex MS 8 AWG 105C AWM 1 A/B 600 V FT1 CR/US AWM style 1028 600V VW01 E-194780 CSA TEW FT1 / Topflex MS H07V2-K 1x10 / Topflex MS BS 6231 600/1000 V 10 sqmm heat resisting 90 4878
	Meter by Meter marking (from 10mm ² onwards)

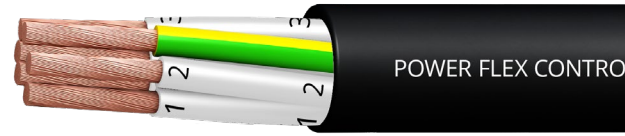
Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
0.5	2.5	10	99.5	10
0.75	2.7	13	66.6	13
1	2.8	16	49.9	15
1.5	3.0	20	34	20
2.5	3.5	28	20.4	30
4	4.0	37	12.7	45
6	4.6	48	8.45	65
10	6.4	66	4.89	115
16	8.1	88	3.1	180



Power Flex Control Series

BROAD-RANGE AUTOMATION SIGNAL RELIABILITY

This PVC control series guarantees signal integrity for measurement and regulation systems across diverse industrial automation landscapes. These cables are meticulously engineered to perform under medium mechanical stresses. Featuring highly flexible Class 5 copper conductors, they are designed for maximum lifespan.



KEY BENEFITS

Versatile Resilience	Wide temperature span (-40°C to +80°C) minimizes SKU complexity
Oil/UV Resistant	Sheath integrity maintained in demanding factory and outdoor settings

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	PVC (Self Extinguishing, oil resistant, Flame retardant)
Outer Jacket	UV Resistant Polyvinyl Chloride PVC
Voltage	300/500V
Colour Code	White Numbered Cores + Earth (G/Y)
Bending Radius	Fixed 4× Cable diameter, Flexing 10× Cable diameter
Standards	BS EN 50525-2-51, IEC 60228, IEC 60332-1-2

PROPERTIES

Strength	Medium mechanical stresses
Water Resistance	Moist/wet rooms, not for submersible application
Environmental Resistance	UV resistant, resistance to oils
Fire Performance	Flame retardant IEC 60332-1-2
Temperature Range	-40°C to +80°C (Fixed), -25°C to +70°C (Flexing)

APPLICATIONS

Conveyer belts, production lines in machinery production
Air conditioning and steel production
Measuring and control
Tools and machinery
Music and sound production

PACKAGING

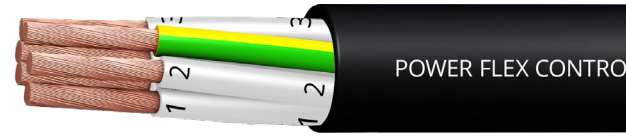
Roll Lengths	500M, 100M, Cut Lengths
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Power Flex Control Series

BROAD-RANGE AUTOMATION SIGNAL RELIABILITY

The series offers immense operational versatility that directly impacts inventory management and procurement time. The wide temperature rating supports both fixed service down to -40°C and flexing services down to -25°C. The sheath is both oil and UV-resistant, safeguarding the cable against industrial fluids and outdoor exposure, ensuring safety compliance (IEC 60332-1-2) across the full spectrum of your automation applications.



Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
PF02/0.5	2 x 0.5	5.5	48
PF03/0.5	3G 0.5	5.5	48
PF04/0.5	4G 0.5	6	56
PF05/0.5	5G 0.5	6.5	66
PF07/0.5	7G 0.5	7.4	86
PF12/0.5	12G 0.5	9.6	140

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
PF02/0.75	2 x 0.75	5.4	45
PF03/0.75	3G 0.75	6	60
PF04/0.75	4G 0.75	6.8	74
PF05/0.75	5G 0.75	7.4	88
PF07/0.75	7G 0.75	8	112
PF12/0.75	12G 0.75	10.8	188
PF18/0.75	18G 0.75	12.7	270

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
PF02/1.0	2 x 1.0	5.7	53
PF03/1.0	3G 1.0	6.4	69
PF04/1.0	4G 1.0	7.3	88

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
PF02/1.5	2 x 1.5	7.3	94
PF03/1.5	3G 1.5	7.3	94
PF04/1.5	4G 1.5	7.9	114

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
PF04/2.5	4G 2.5	9.9	180
PF05/2.5	5G 2.5	11	220
PF12/2.5	12G 2.5	16.4	490
PF18/2.5	18G 2.5	19.6	710

TOPFLEX® EARTH

UNIVERSAL GREEN/YELLOW GROUNDING WIRE

Essential Green/Yellow wire for fixed safety and earthing connections. Its flexible construction and Tri-Rated standards (UL, CSA, BS) guarantee universal compliance for international cabinet builds.



KEY BENEFITS

Universal Compliance	Tri-Rated standards meet diverse global earthing specifications
Resilient	Durable PVC sheath offers excellent chemical/oil resistance for long-term integrity

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Extra slide flexible PVC (High service temperature) T13 Class 43 UL 1581
Outer Jacket	Green/Yellow RAL 6018/1021
Voltage	0.6/1 kV
Bend Radius	5 × cable diameter
Standards	UL 758, CSA C22.2, IEC 60332-1, IEC 60228, <HAR>, UL Listed, RoHS, CE, CPR (Construction Products Regulation)

PROPERTIES

Environmental Resistance	Acceptable resistance to chemicals/oils
Fire Performance	Flame retardant IEC 60332-1 Non propagation VW-1, FT1 & FT2 acc. to UL 2556, CPR: Eca
Temperature Range	-40°C to +90°C / 105°C
Maximum	Max. short circuit temperature 160°C (5 sec.)

APPLICATIONS

Grounding and earthing connections
Installation for safety requirement or separate earthing systems
Internal wiring of electrical cabinets, switchboards, electrical devices
In conduit/flexible motor ducts, transformers and machinery
Industrial use and electrical panel wiring
Separate earthing cable used in buildings and power palls

PACKAGING

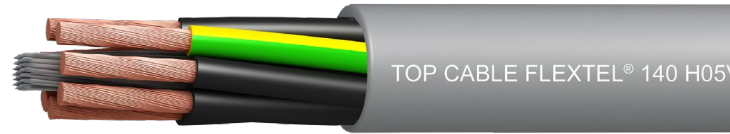
Roll Lengths	100M
Cable Marking	TOPFLEX MS TRI-RATED H07V-K 1X10 AENOR <HAR> DOP TC019 Eca / TOPFLEX MS 8 AWG 105C AWM 1 A/B 600 V FT1 CR/US AWM STYLE 1028 600V VW-1 E-194780 CSA TEW FT1 / TOPFLEX MS H07V-K 1X10 / TOPFLEX MS BS 6231 600/1000 V 10 SQMM HEAT RESISTING 90 4878
	Meter by meter marking (from 10mm ² onwards)

Product code	Cross-section (mm ²)	Overall Diameter (mm)	Max Amps	Voltage drop (V/A-km)	Weight (kg/km)
EC0.5GY	0.5	2.5	10	99.5	10
EC0.75GY	0.75	2.7	13	66.6	13
EC1.0GY	1	2.8	16	49.9	15
EC1.5GY	1.5	3	20	34	20
EC2.5GY	2.5	3.5	28	20.4	30
EC4.0GY	4	4	37	12.7	45
EC6.0GY	6	4.6	48	8.45	65
EC10GY	10	6.4	66	4.89	115
EC16GY	16	8.1	88	3.1	180
EC25GY	25	9.5	117	2	265
EC35GY	35	10.6	144	1.42	355
EC50GY	50	13.1	175	0.99	505
EC70GY	70	14.8	222	0.696	685



FLEXTEL® 140 H05VV5-F

FLEXIBLE MULTI-CORE CONTROL



Flexitel® 140 H05VV5-F is a 300/500V control cable engineered for flexing service and medium mechanical stress. The UV-resistant PVC sheath ensures long-term durability and AG2 impact resistance.

KEY BENEFITS

Flexing Durability	Built for continuous movement in machine tools and mobile service applications.
Simplified Wiring	Black numbered cores and G/Y Earth streamline installation and maintenance

CONSTRUCTION

Conductors	Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IEC 60228.
Insulation	Flexible PVC Type T12
Outer Jacket	Flexible and oil resistant PVC, type TM5 according to EN 50363-4-1. Grey colour.
Voltage	300/500V
Colour Code	Black Numbered Cores + Earth (G/Y)
Bending Radius	5 × Cable Diameter

PROPERTIES

Impact Resistance	AG2 Medium severity
Water Resistance	AD5 Jets
Environmental Resistance	UV resistant, resistance to chemicals & oils
Fire Performance	Flame non-propagation according to EN 60332-1 / IEC 60332-1, Reaction to fire CPR: Eca according to EN 50575
Temperature Range	70°C
Maximum	Maximum short-circuit temperature 160°C (5 sec.)
Minimum	5°C
Test Voltage	2000V / 5 min
Standards	UNE 21031-5-1 C, IEC 60228, EN 50363-3, 50363-4, IEC 60332-1, EN 50575, UNE 211605, Construction Products Regulation CPR Eca, RoHS Compliant, CE Approved

APPLICATIONS

Mobile Service, Flexing Application
Connection of machinery parts in manufacturing
Machine Tools
Fixed ducts, indoor use, Open air, in conduit
Music and sound production

FLEXTEL® 200 VV-K

ROBUST 1KV FIXED CONTROL

FLEXTEL® 200 is a 1kV flexible control cable built for superior mechanical and environmental protection in fixed installations. The UV-resistant PVC sheath ensures AD5 water resistance and medium-severity impact protection (AB2).



KEY BENEFITS

High Voltage Security	1kV rating provides maximum insulation integrity and enhanced safety margin
Installation Ease	Highly flexible construction simplifies routing in complex machine layouts

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Flexible Type PVC/A acc. to IEC 60502-1
Outer Jacket	UV Resistant Polyvinyl Chloride PVC Type ST1 IEC 60502-1
Voltage	600/1000V
Colour Code	Black Numbered Cores + Earth (G/Y)
Bending Radius	5 × Cable Diameter

PROPERTIES

Impact Resistance	AG2 Medium severity
Water Resistance	AD5 Jets
Environmental Resistance	UV resistant, good resistance to chemicals & oils
Fire Performance	Flame retardant IEC 60332-1, Low Halogen Emission <15% Chlorine. CPR Eca
Temperature Range	75°C
Maximum	Maximum short-circuit temperature 160°C (5 sec.)
Minimum	-40°C (Fixed)
Standards	IEC 60228, IEC 60332-1, UNE 211605, Construction Products Regulation CPR Eca, RoHS Compliant, CE Approved

APPLICATIONS

Connecting motors and frequency converters
Complex layouts requiring flexible cables
Connection of machinery parts in manufacturing
Industrial use, factories, workshops
High level of protection, extremely versatile
Music and sound production, lighting, theatre

PACKAGING

Roll Lengths	500M, 100M, Cut Lengths
Meter marking	TOP CABLE FLEXTEL 200 VV-K 0.6/1KV 12G1.5 MM2 DOP TC014 Eca MADE IN SPAIN 39909 2023YEAR 0229M (Meter mark)

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
CC06/1.5	6G 1.5	9.5	155
CC07/1.5	7G 1.5	9.5	170
CC12/1.5	12G 1.5	11.9	270
CC19/1.5	19G 1.5	14.5	405
CC27/1.5	27G 1.5	17.4	550

Product Code	Cross-section (mm ²)	Overall Diameter (mm)	Weight (kg/km)
CC07/2.5	7G 2.5	11.4	260
CC12/2.5	12G 2.5	14.3	415
CC08/2.5	8G 2.5	12.5	300
CC19/2.5	12G 2.5	17.9	635
CC27/1.5	27G 1.5	17.4	550



TOXFREE® EARTH FLEX

CORROSION-FREE LSZH GROUNDING WIRE

The TOXFREE® EARTH FLEX is a Halogen-Free grounding wire featuring a tinned copper conductor. This design mitigates premature failure by actively eliminating corrosion and galvanic pairing.



KEY BENEFITS

Corrosion Mitigation	Tinned copper conductor maximizes the lifespan of exposed earthing connections
Asset Protection	LSZH actively prevents corrosive gas damage to sensitive equipment during fire

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Halogen Free Thermosetting Flexible Rubber, type HF 90 acc. IEC 60092-360
Outer Jacket	Green/Yellow RAL 6018/1021
Voltage	0.6/1 kV
Bend Radius	4 × cable diameter
Standards	IEC 60092-360, IEC 60332-1, IEC 60332-22, IEC 60754-1, IEC 60754-2, IEC 61034, <HAR>, RoHS, CE

PROPERTIES

Environmental Resistance	Acceptable resistance to chemicals/oils
Fire Performance	Flame retardant IEC 60332-1 (non-propagation), Fire non-propagation IEC 60332-22, LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Temperature Range	-40°C to +90°C
Maximum	Max. short circuit temperature 250°C (5 sec.)

APPLICATIONS

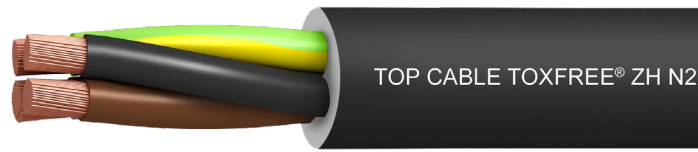
Public places, electrical panels, hospitals, schools, museums, airports, bus terminals, shopping malls, laboratories
Grounding and earthing connections
Installation for safety requirement or separate earthing systems
Internal wiring of electrical cabinets, switchboards, electrical devices
In conduit/flexible motor ducts, transformers and machinery
Industrial use and electrical panel wiring
Separate earthing cable used in buildings and power palls

Product code	Cross-section (mm ²)	Overall Diameter (mm)	Max Amps	Voltage drop (V/A-km)	Weight (kg/km)
ZHEC1.5GY	1.5	2.9	20	29.5	20
ZHEC2.5GY	2.5	3.6	26	17.7	30
ZHEC4.0GY	4	4.1	37	11	45
ZHEC6.0GY	6	4.7	48	7.32	60

TOXFREE® ZH N2XH FLEX

LOW SMOKE HALOGEN FREE SAFETY CABLE

TOXFREE® ZH N2XH FLEX is the 0.6/1kV XLPE safety cable for critical assets and public spaces. The LSZH jacket is Fire Retardant (IEC 60332-3-22) and ensures zero toxic or corrosive gas emission, maintaining clear visibility (> 80% light transmission).



KEY BENEFITS

Critical Asset Security	Zero corrosive gas emission prevents fire-related damage to electronics
Compliance Certainty	Mandatory for public spaces and infrastructure projects requiring high-level fire safety

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	XLPE Cross-linked polyethylene type HF-XLPE-90 acc. to IEC 60502-1
Outer Jacket	Low Smoke Halogen Free Polyolefin SHF1 (Black)
Voltage	0.6/1 kV
Minimum Bending Radius	5 × cable diameter
Approvals	IEC 60502-1, IEC 60332-3, IEC 60754-1, IEC 60754-2, IEC 61034, CE, RoHS

PROPERTIES

Impact Resistance	AG2 Medium Severity
Environmental Resistance	UV Resistant UNE 211605, Good resistance to chemicals & oils
Flame Retardant	Flame retardant IEC 60332-1
Fire Retardant	Fire non-propagation IEC 60332-3-22
Low Smoke Halogen Free	LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Light Transmittance	>80%
Construction Products Regulation CPR	B2ca-s1a, d1, a1 / Cca-s1a, d1, a1
Service Temperature	Maximum 90°C
Maximum	Max. short circuit temperature 250°C (5 sec.)
Minimum	-40°C (Fixed/protected), Install temp. 0°C

APPLICATIONS

Supplying electricity in buildings & civil engineering works, limiting the generation and spread of fire & smoke
Industrial use & public places: hospitals, schools, museums, airports, bus terminals, shopping malls, offices, and laboratories
Safety cable in the event of fire that does not emit toxic or corrosive gases; enables visibility for emergency exits
Protection for public health and electronic equipment
Installation conditions: open air, buried in conduit, fixed protected installations

PACKAGING

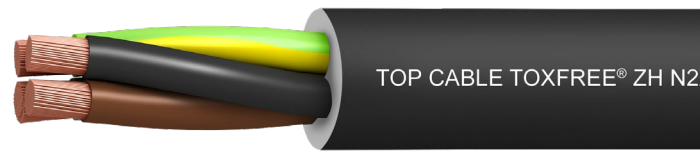
Roll Lengths	1000M, 500M, 100M, Cut Lengths
Cable Marking	TOP CABLE TOXFREE ZH N2XH FLEX 0.6/1 KV rxs mm2 IEC 60502 IEC 60332-3-22 / 90°C DOP TC005_8 B2ca-s1a, d1, a1 MADE IN SPAIN XXXXX aaaa meter / Logo AENOR, Logo CEmix, XXXXX-No
	Meter Marked



TOXFREE® ZH N2XH FLEX

LOW SMOKE HALOGEN FREE SAFETY CABLE

The XLPE insulation and Fire Retardant characteristics ensure electrical integrity is maximized. This TOXFREE® cable represents the ultimate investment in risk mitigation and TCO reduction by securing human safety and preventing secondary fire damage to sensitive electronics (data centres, hospitals, control rooms) in every mandated application.



Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
N2XH.1C10	10	8.2	67	4.23	135
N2XH.1C16	16	9.2	110	2.68	190
N2XH.1C25	25	10.9	147	1.73	285
N2XH.1C35	35	11.8	183	1.23	380
N2XH.1C50	50	13.5	231	0.86	520
N2XH.1C70	70	15.4	292	0.603	710
N2XH.1C95	95	17.2	351	0.457	925
N2XH.1C120	120	19.1	418	0.357	1165

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
N2XH.2C1.5	2 x 1.5	7.3	24	34	80
N2XH.2C2.5	2 x 2.5	8.6	32	20.4	115
N2XH.2C6.0	2 x 6	10.5	57.25	8.45	205

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
N2XH.3G1.5	3G 1.5	11.3	20	34	110
N2XH.3G2.5	3G 2.5	12.1	27	20.4	145
N2XH.3G4.0	3G 4.0	12.2	36	12.7	200
N2XH.3G6.0	3G 6.0	13.4	46	8.45	265
N2XH.3G16	3G 16	16.8	91	2.68	405
N2XH.4G1.5	4G 1.5	11.7	20	29.3	130
N2XH.4G2.5	4G 2.5	12.2	27	17.7	175
N2XH.5G1.5	5G 1.5	13.1	20	29.3	155
N2XH.5G2.5	5G 2.5	14.4	27	17.7	215
N2XH.5G4.0	5G 4.0	14.8	36	11	300
N2XH.5G6.0	5G 6.0	16.3	46	7.23	405
N2XH.5G10	5G 10	18	66	4.23	625

TOXFREE® MARINE XOxTCuZ1-K (AS)

ARMoured INSTRUMENTATION CABLE

This armoured safety cable is crucial for signal integrity and instrumentation on marine vessels and offshore platforms. The tinned copper braid screen and armour provide superior EMI shielding and mechanical protection.



KEY BENEFITS

EMI Shielding	Tinned copper braid screen ensures signal integrity for sensitive navigation and control systems
Marine Compliance	DNV-GL and ABS approvals simplify project certification

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	XLPE Cross-linked polyethylene type HF-XLPE-90 acc. to IEC 60092-360
Protective Layer	AL-POS
Screen	Tinned copper braid screen and ripcord
Braid Protection	Tinned copper wire braid protection over collective screen
Outer Jacket	LSHF Thermoplastic Polyolefin SHF1 to IEC 60092-360, Grey, Fire retardant
Voltage	150/250 V
Minimum Bending Radius	<25mm = 4× cable diameter, >25mm = 6× cable diameter
Approvals	ABS, DNV-GL, Bureau Veritas, CE, RoHS

PROPERTIES

Water Resistance	AD6 Waves
Impact Resistance	AG3 High Severity
Environmental Resistance	UV resistant, resistance to chemicals & oils
Flame Retardant	Flame retardant IEC 60332-1
Fire Retardant	Fire non-propagation IEC 60332-3-22
Low Smoke Halogen Free	LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Light Transmittance	>60%
Service Temperature	Maximum 90°C
Maximum	Max. short circuit temperature 250°C (5 sec.)
Minimum	-40°C (Fixed, protected installations), -15°C installation temperature

APPLICATIONS

Safety instrumentation and telecommunication cable
Computer labs, data centres, telecommunications and networking power supply
Marine use, commercial vessels, international waters vessels, small and large vessels
Luxury yachts, public transport vessels (Citycat, passenger vessels)
Safety cable in the event of fire (does not emit toxic or corrosive gases)
Airports, hospitals, schools, and public places where safety is required. Protection for public health and electronic equipment



TOXFREE® ZH MX Switchboard Wiring

90°C LSZH PANEL WIRE

A flexible, Halogen-Free wire essential for internal switchboard wiring where fire safety and asset protection are non-negotiable. The HF 90 insulation supports continuous operation at 90°C, minimizing thermal risk in high-density panels.



KEY BENEFITS

High-Heat Security	90°C rating prevents thermal degradation in hot cabinet environments
LSZH Protection	Actively prevents corrosive gas damage to expensive switchgear components

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	Halogen Free Thermosetting Flexible Rubber, type HF 90 acc. IEC 60092-360
Voltage	0.6/1 kV
Bend Radius	4 × cable diameter
Standards	IEC 60092-360, IEC 60332-1, IEC 60332-22, IEC 60754-1, IEC 60754-2, IEC 61034, <HAR>, RoHS, CE, DNV

PROPERTIES

Environmental Resistance	Acceptable resistance to chemicals/oils
Fire Performance	Flame retardant IEC 60332-1 (non-propagation), Fire non-propagation IEC 60332-22, LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Temperature Range	-40°C to +90°C
Maximum	Max. short circuit temperature 250°C (5 sec.)

Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
1.5	2.9	20	29.5	20
2.5	3.6	26	17.7	30
4	4.1	37	11	45
6	4.7	48	7.32	60

TOXFREE® MARINE XZ1-K (AS)

THE MARINE POWER CABLE FOR CLASS VESSELS

The TOXFREE® MARINE XZ1-K is the essential LSZH power cable for maritime safety and offshore compliance. Built specifically for critical environments where fire propagation risk is high, its zero-halogen construction guarantees maximum protection for personnel and critical navigation systems.



KEY BENEFITS

Life-Safety Compliance	LSZH and low smoke standards meet mandatory marine safety regulations
Global Certified	ABS, DNVGL, and Lloyd's Register approvals secure worldwide vessel classification

CONSTRUCTION

Conductors	Electrolytic annealed copper Class 5 (Flexible) according to IEC 60228 & AS/NZS 1125
Insulation	XLPE Cross-linked polyethylene type HF-XLPE-90 acc. to IEC 60092-360
Outer Jacket	Low Smoke Halogen Free Polyolefin SHF1 (IEC 60092-360), Black
Voltage	0.6/1 kV
Minimum Bending Radius	<25mm = 4× cable diameter, >25mm = 6× cable diameter
Approvals	ABS, DNV-GL, Bureau Veritas, Lloyd's Register, CE, RoHS
Standards	AS/NZS 3004.2:2014 Electrical Installations – Marines and Boats – Boat Installations (6.1, 6.2, 6.3.1, 6.3.2, 6.3.3)

PROPERTIES

Water Resistance	AD6 Waves
Impact Resistance	AG2 Medium Severity
Environmental Resistance	UV Resistant UNE 211605, Good resistance to chemicals & oils
Flame Retardant	Flame retardant IEC 60332-1
Fire Retardant	Fire non-propagation IEC 60332-3-22
Low Smoke Halogen Free	LSZH IEC 60754-1
Emissions	Low corrosive gases emission IEC 60754-2, Low smoke emission IEC 61034
Light Transmittance	>60%
Construction Products Regulation CPR	B2ca-s1a, d1, a1 / Cca-s1a, d1, a1
Service Temperature	Maximum 90°C
Maximum	Max. short circuit temperature 250°C (5 sec.)
Minimum	-40°C (Fixed/protected), Install temp. -15°C

APPLICATIONS

Marine use, commercial vessels, international waters vessels
Maritime projects where LSZH power cables are required by law
Luxury yachts, public transport vessels (Citycat, passenger vessels)
Safety cable in the event of fire — does not emit toxic or corrosive gases

PACKAGING

Roll Lengths	1000M, 500M, 100M, Cut Lengths
Cable Marking	TOP CABLE TOXFREE MARINE XZ1-K (AS) 0.6/1kV nxs mm2 IEC 60092-353 IEC 6033203022 / 90°C DOP TC005_8 B2ca-s1a, d1, a1 MADE IN SPAIN XXXXX aaaa meter / Logo AENOR, Logo CMim, XXXXX-NO
	Meter Marked



TOXFREE® MARINE XZ1-K (AS)

THE MARINE POWER CABLE FOR CLASS VESSELS

The cable's performance features actively prevent corrosive gas damage (IEC 60754-2) and maintain high visibility during a fire event. Comprehensive AS/NZS and global marine-specific certifications significantly simplify compliance and global project approval, while the XLPE insulation ensures 90°C power reliability and long-term operational integrity.



Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
LSZH.SD10	10	8.2	67	4.23	135
LSZH.SD16	16	9.2	110	2.68	190
LSZH.SD25	25	10.9	147	1.73	285
LSZH.SD35	35	11.8	183	1.23	380
LSZH.SD50	50	13.5	231	0.86	520
LSZH.SD70	70	15.4	292	0.603	710
LSZH.SD95	95	17.2	351	0.457	925
LSZH.SD120	120	19.1	418	0.357	1165

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
LSZH.2C1.5	2 x 1.5	7.3	24	34	80
LSZH.2C2.5	2 x 2.5	8.6	32	20.4	115
LSZH.2C6.0	2 x 6	10.5	57.25	8.45	205

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
LSZH.3G1.5	3G 1.5	11.3	20	34	110
LSZH.3G2.5	3G 2.5	12.1	27	20.4	145
LSZH.3G4.0	3G 4.0	12.2	36	12.7	200
LSZH.3G6.0	3G 6.0	13.4	46	8.45	265
LSZH.3G16	3G 16	16.8	91	2.68	405

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
LSZH.4G1.5	4G 1.5	11.7	20	29.3	130
LSZH.4G2.5	4G 2.5	12.2	27	17.7	175

Product code	Cross-section mm ²	Overall Diameter	Max amps*	Voltage drop (V/A -km)	Weight (kg/km)
LSZH.5G1.5	5G 1.5	13.1	20	29.3	155
LSZH.5G2.5	5G 2.5	14.4	27	17.7	215
LSZH.5G4.0	5G 4.0	14.8	36	11	300
LSZH.5G6.0	5G 6.0	16.3	46	7.23	405
LSZH.5G10	5G 10	18	66	4.23	625

TROPAC

has your back.

Technical Sales Support

1300 876 722

estimating@tropac.com.au

WWW.TROPAC.COM.AU

Head Office

QLD: 19-27 Fred Chaplin Circuit, Bells Creek QLD 4551

Branch Locations

NSW: Unit 3/10 George Young St, Auburn NSW 2144

VIC: 193 O'Herns Rd, Epping VIC 3076

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