

MOTION**THERM**LINE



CABLE SOLUTIONS FOR THE MOST SEVERE CONDITIONS IN INDUSTRY





MOTION**CABLES**: LEADING THE WAY IN **SPECIAL CABLE** **SOLUTIONS**

MOTION**CABLES** specializes in the design, manufacturing, and qualification of high-performance special cables, particularly focusing on applications requiring constant movement, extreme environmental resistance, and maximum data integrity.

Our mission goes beyond mere compliance; we provide products validated to operate reliably under the most severe real-world conditions, including combined and extreme stress scenarios.

This commitment is rooted in MOTION**TECHCORE**, our dedicated Research & Test Center, where an engineering-driven approach ensures that every cable is tested and classified before shipment.

By subjecting our cables to over 60 rigorous tests, from dimensional checks and material analysis to dynamic movement (e.g., drag chain, torsion) and system-level validation, we guarantee a product that maintains its performance throughout its planned operational life.

MOTION**CABLES** thus acts as a technical partner, providing not just components, but verified solutions that directly enhance system reliability and reduce the overall total cost of ownership (TCO) for the customer.

KEY ADVANTAGES OF MOTIONCABLES

MOTION**CABLES** leverages its MOTION**TECHCORE** research center to deliver verified, high-performance special cables, offering the following key benefits:

GUARANTEED LONG-TERM RELIABILITY

Products are qualified through accelerated aging and dynamic testing (millions of cycles) to ensure stable performance over the full operational life, minimizing unscheduled downtime.

PERFORMANCE CLASSIFICATION

Cables are objectively categorized into four classes (Electrical, Dynamic, Environment, Safety) based on real-world test data, enabling quick and precise selection for specific application needs.

SYSTEM FUNCTIONALITY ASSURANCE

Validation includes the entire system (Drive–Cable–Motor), confirming reliable performance and compatibility within the customer's actual industrial environment.

SUPERIOR ENVIRONMENTAL RESISTANCE

Proven resistance to oils, chemicals, temperature extremes, UV, and salt fog, ensuring cable integrity in harsh and contaminated settings (e.g., machine tools, offshore).

REDUCED TOTAL COST OF OWNERSHIP (TCO)

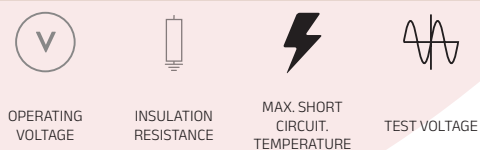
High durability, predictable life expectancy, and validated technical parameters simplify design and maintenance, leading to fewer failures and lower inventory costs.

ICONS

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS



ELECTRICAL PROPERTIES



Use the icons for a fast summary and a general idea of the related product features. More details on product characteristics are available in the proper sections of each product page.

Disclaimer: This document does not constitute a warranty of performance under all operating conditions. Final responsibility for product selection, installation and system integration rests with the system designer or end user.

RELIABILITY FOR EXTREME ENVIRONMENTS

MOTION**THERMLINE**[®] is designed to guarantee continuity even in the most difficult conditions.

When the temperature rises or falls beyond limits, when the environment is charged with aggressive substances, when movement is continuous and thermal cycles offer no respite, these cables continue to do their job: resist.

They are designed for those who manage high-criticality systems, where a machine stop is not just an inconvenience but a cost, a risk, and a safety problem.

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WHY THERMLINE: THE DIFFERENCES

Parameter	Specification / Statement
Intended Use	Cables intended for dynamic industrial applications requiring stable performance under combined thermal, mechanical and environmental stress, within declared operating limits.
Operating Temperature Range	Performance characteristics applicable within the specified minimum and maximum operating temperatures as defined in the technical data.
Mechanical Performance	Cable construction designed to withstand repeated bending, flexing and acceleration when installed in compliance with specified minimum bend radius, routing and support conditions.
Dynamic Endurance	Rated for dynamic operation up to ≥ 5 million cycles under defined test conditions representative of continuous movement applications.
Electrical Stability	Insulation system designed to maintain functional dielectric properties under thermal and mechanical stress within the declared service conditions.
Material Behaviour	Materials selected to limit degradation mechanisms such as embrittlement, cracking and loss of flexibility during the intended service life.
Service Life Expectation	Supports predictable maintenance intervals when cables are selected, installed and operated according to applicable technical specifications.

Note: Performance values are based on standardized test conditions and typical application profiles. Actual performance may vary depending on installation method, duty cycle, environmental exposure and system design

PERFORMANCE FOR EXTREME ENVIRONMENTS

MOTION**THERMLINE**[®] is engineered to operate where traditional cables fail to endure : high temperatures, intense cold, aggressive chemicals, and continuous movement.

Feature	Description
Extreme Thermal Range	Works continuously from -50 °C to +125 °C , with stable performance: a single cable for hot and cold.
Advanced Chemical Resistance	Stable with hot oils, solvents, aggressive detergents, MUD, and industrial fluids.
Flexibility in Cold	Maintains elasticity and manageability even at low temperatures, without cracking or breaking.
Durability in Motion	Designed for dynamic applications (cable carriers, moving axes).
Electrical Stability	Reduces noise and leakage, ensuring reliable signals even over long distances.
LSHF Fire Safety	Low Smoke Halogen Free materials: clear, non-corrosive fumes, increased safety.



ADVANTAGES FOR STAKEHOLDERS

MEASURABLE PERFORMANCE.

- ⦿ Engineered materials with optimized electrical values.
- ⦿ Insulation with low dielectric constant for cleaner signals.
- ⦿ High temperatures without premature derating.
- ⦿ International certifications (IEC, NEK, ECOLAB, etc.).
- ⦿ A single family for power, control, signal, and dynamic applications.

ECONOMIC VALUE & SIMPLIFIED MANAGEMENT.

- ⦿ Service life several times longer than standard cables.
- ⦿ Fewer replacements ⇒ Lower TCO (Total Cost of Ownership).

- ⦿ Fewer stock codes ⇒ Simplified management.
- ⦿ A single cable for heat, cold, oils, and detergents.
- ⦿ Rapid ROI (Return on Investment) in high-productivity lines.
- ⦿ Reduction of downtime & Increased OEE (Overall Equipment Effectiveness).

MORE CONTROL, FEWER SURPRISES.

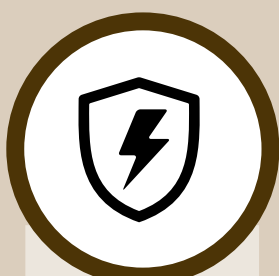
- ⦿ Cables are flexible and manageable even at -40 °C.
- ⦿ No cracking or micro-fractures of the jacket.
- ⦿ Quick installation and fewer emergency interventions.
- ⦿ High dynamic durability in cable carriers and moving lines.

KEY ADVANTAGES FOR BUYERS AND INSTALLERS:



SERVICE LIFE > 5 TIMES

compared to conventional rubber or PVC cables.



ELECTRICAL SAFETY

certified IEC / IEEE /
NEK / ECOLAB



ECO FRIENDLY

Halogen free,
silicone free
materials,
recyclable.



LOGISTICALLY FLEXIBLE

a single cable
for hot or cold
environments: cost
management.

THE TECHNOLOGY THAT MAKES THE DIFFERENCE

DUAL INSULATION SYSTEM®

Two Layers, One Guarantee: Operational Continuity.

This is why MOTION**THERMLINE**® utilizes the Dual Insulation System®, a double insulation technology that combines:

- ⊙ An ultra-stable electrical core
- ⊙ With external protection highly resistant to the most extreme conditions.

Result: A cable that insulates better, resists more, and is designed to limit material property variation over the intended service life.

INNER LAYER: FLEXITHERM - EXOTHERM (ELECTRICAL STABILITY AND HEAT RESISTANCE)

- ⊙ **Cross-linked, high-stability material:** Constant performance, no insulation failure
- ⊙ **Dielectric strength ≥ 25 kV/mm:** Improved safety even in the presence of over-voltages.
- ⊙ **Low dielectric constant ($\epsilon_r = 2.25$):** More stable signals and power over long distances.
- ⊙ **Thermal range 105 – 125 °C:** Suitable for systems that generate heat or thermal shocks.

OUTER LAYER: ISOTECH / EXOTHERM PLUS (THE ALL-RESISTANT BARRIER)

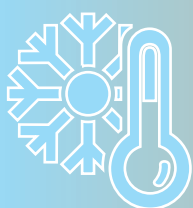
- ⊙ **Flexibility guaranteed up to -50 °C:** The cable does not harden or break in the cold.
- ⊙ **Total resistance to mineral/synthetic oils:** Ideal for presses, CNC, robots, and lubricated machines.
- ⊙ **ECOLAB compatible** and resistant to heavy solvents.
- ⊙ **Extra resistance** to boiling water, ice, and hot cold cycles.

THERMAL AND ELECTRICAL EXCELLENCE

THERMAL CAPABILITY

MOTION**THERMLINE**® is designed to remain operational and ensure process continuity even with extreme heat (up to +125 °C continuous) or intense cold (flexible and manageable even at -50 °C).

- ⦿ **High Temperature:** Maintains shape and stability. ExoTherm insulation remains stable over time. Reduces need for derating and drastically reduces extraordinary replacements.
- ⦿ **Very Low Temperature:** Excellent flexibility at -40 °C (compared to “Almost none” for standard cables). Minimal risk of breakage. Perfect for industrial cold rooms, freezer tunnels, and outdoor installations.



COLD RESISTANCE

The **FlexTherm & ExoTherm** maintain elasticity and bendability even after prolonged exposure to **-50 °C**, preventing fractures in dynamic installations or in cable carriers.

HEAT RESISTANCE

The **IsoTech & ExoThermPlus** retains dimensional stability and insulation up to **+125 °C**, preventing swelling and dielectric drift.



SUPERIOR ELECTRICAL EFFICIENCY.

Service life several times longer than standard cables.

- ⦿ ϵ_r of 2.25 is superior to EPR (3.4), PVC (4.0), and Rubber (3.6).
- ⦿ A lower ϵ_r means less capacity, less distortion, and less signal drop.
- ⦿ For the system:
Cleaner signals, fewer measurement errors, and better compatibility with inverters and high-frequency PLC.

MEASURABLE BENEFITS OF DUAL INSULATION

Property	Dual Layer
Dielectric strength (kV/mm)	IsoTech and ExoThermPlus
Mechanical endurance (cycles)	> 5 M
Dielectric constant ϵ_r	2.25
Dissipation factor $\tan \delta$	0.001
Linear capacitance (pF/m)	≈ 45

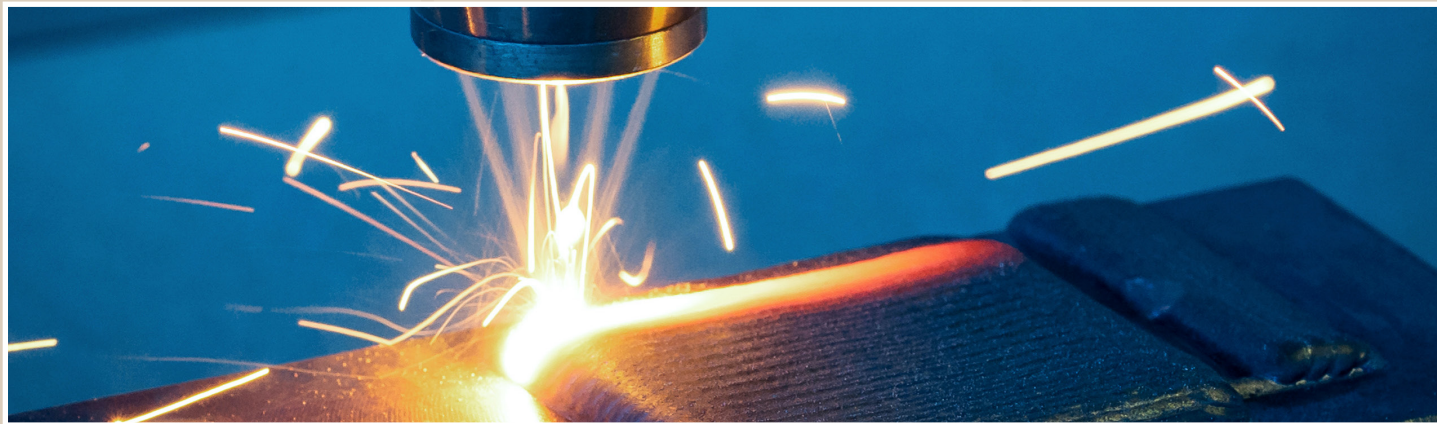
The **Dual Insulation** increases security, stability, mechanical, and electrical duration.

Note: performance declared according to defined operating limits.

MECHANICAL AND DYNAMIC EXCELLENCE

Designed to **resist continuous movement** in applications requiring high speeds, sudden accelerations, and millions of dynamic cycles:

Dynamic Performance	Value	Key Benefit
Dynamic Cycles	≥ 5 million	Longer service life, supports extended service intervals under declared operating
Acceleration	Up to 20 m/s ²	Stability on high-dynamic machines.
Speed	Up to 300 m/min	Ideal for fast automation and pick & place systems.
Bending Radius	7.5×OD 10×OD	Safe bending without excessive mechanical stress.



APPLICATIONS AND CERTIFICATIONS

AREAS OF EXCELLENCE.

MOTION**THERMLINE**® is designed to perform optimally in demanding environments such as:



FOOD & BEVERAGE

High-pressure washdowns, alkaline foams, steam, and high-speed pick & place robots.



HEAVY INDUSTRY

Furnaces, hot presses, molds, castings, hot oil, and metal dust



COLD LOGISTICS

Industrial cold rooms, freezer tunnels, and refrigerated warehouses.



ROBOTICS AND DYNAMIC AUTOMATION

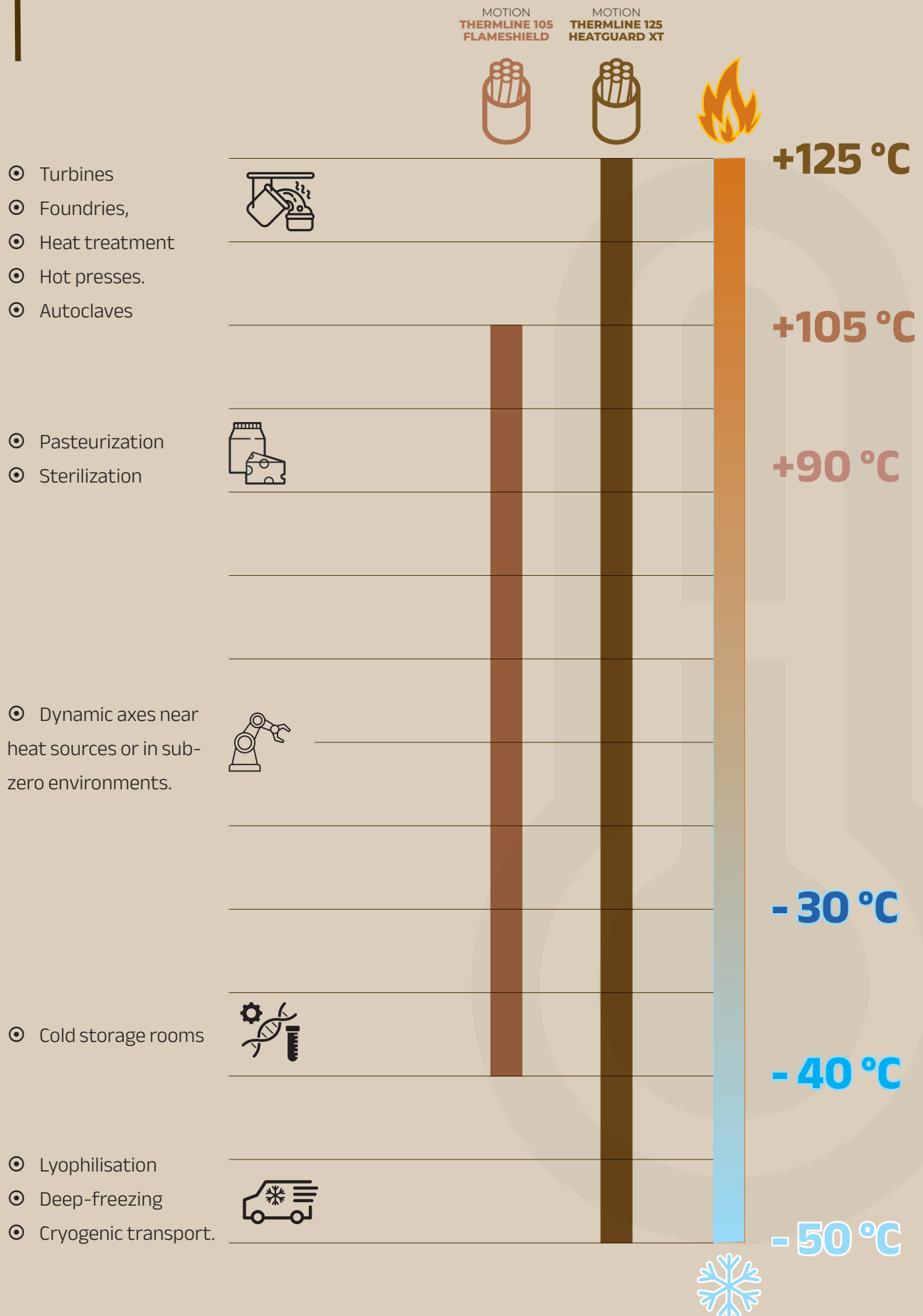
Dynamic axes with torsion and high acceleration.

REGULATED MARKETS PERFORMANCE & COMPLIANCE STATEMENT

Aspect	Compliance-Oriented Statement
Scope of Application	Products are intended for use in industrial systems subject to applicable standards and regulations, provided that selection and installation comply with the manufacturer's technical
Performance Claims	Performance characteristics are declared based on internal qualification testing and recognized industry standards. No performance claim shall be interpreted as unconditional or
Dynamic Operation	Declared dynamic performance applies exclusively to applications operating within specified mechanical limits, including bend radius, acceleration, speed and routing
Environmental Resistance	Resistance to thermal, chemical and environmental influences is defined within the limits stated in the technical data and applicable standards.
Service Life	Expected service life is dependent on application severity, duty cycle and environmental conditions and cannot be guaranteed beyond declared operating limits.
Downtime Considerations	Product design aims to reduce the risk of cable-related failures; however, system downtime may also be influenced by external factors beyond the manufacturer's control.
Liability Limitation	The manufacturer's responsibility is limited to compliance with declared specifications. No implied guarantee of uninterrupted operation is provided.

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MORE APPLICATION FIELDS



PRODUCT LINES

SINGLE WIRE

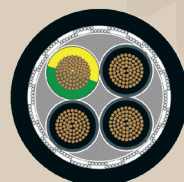
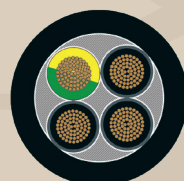
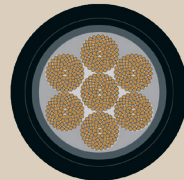
- ⊙ From 4 mm² to 400 mm²
- ⊙ For power distribution, motors, and marine applications.
- ⊙ Shielded and unshielded versions available.
- ⊙ Tinned conductors available upon request for marine resistance.

CONTROL & SIGNAL

- ⊙ From 0,50 mm² to 2,5 mm² up to 48 conductors
- ⊙ For sensor, automation, robot and instrumentation, festoon, cable-drag chain.
- ⊙ Low Capacitance 45 pF/m.
Clear and precise communication.
- ⊙ Excellent EMC with dedicated shielding.

POWER MULTI CORE

- ⊙ From 2x4 mm² to 4x240 mm²
- ⊙ For motors, inverter, power lines, heavy automation.
- ⊙ Unshielded and shielded version available.
- ⊙ Resistance to oil, solvent and MUD.



MOTION
**THERMLINE 125
HEATGUARD XT**

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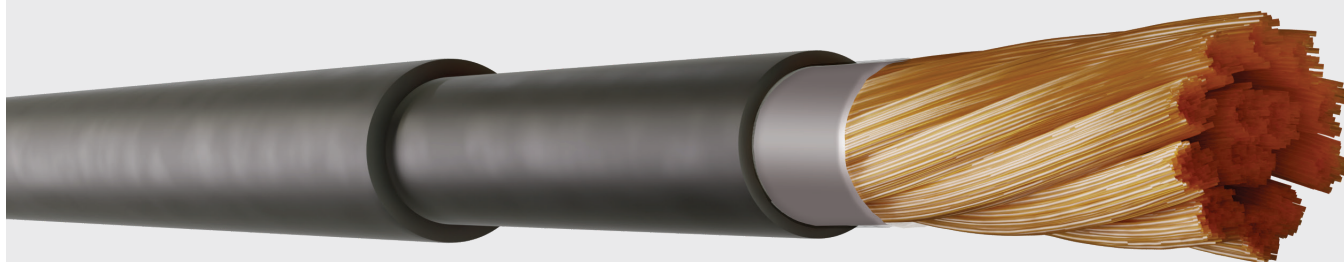
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MOTION
**THERMLINE 105
FLAMESHIELD**

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LABS
Free

ECOLAB

RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL	IsoTech + ExoThermPlus -50 °C / +125 °C					
CHEMICAL	 HALOGEN FREE	 LOW SMOKE EMISSIONS	 NO -TOXIC FUMES	SAFETY	 FLAME RETARDANT	 FIRE RESISTANT
ENVIRONMENTAL	 OIL RESISTANT	 WATER RESISTANT	 MUD RESISTANT	 EMC PROTECTED	 UV RESISTANT	 MICROBE RESISTANT

ELECTRICAL PROPERTIES

 Test Voltage	4,0 kV x 5 min acc. to EN 50395 Cl. 10.3
 Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C acc. to EN 50395 Cl. 8.1
 Max. Short Circuit Temperature	160 °C (≤ 1 s)
 Operating Voltage	U ₀ /U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	6 ÷ 400 mm ²	Wide range for control and signal
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

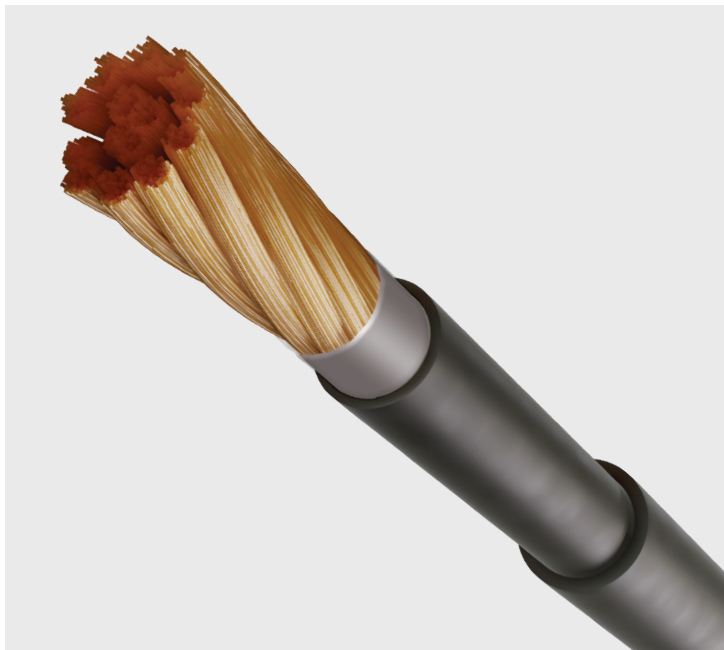
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

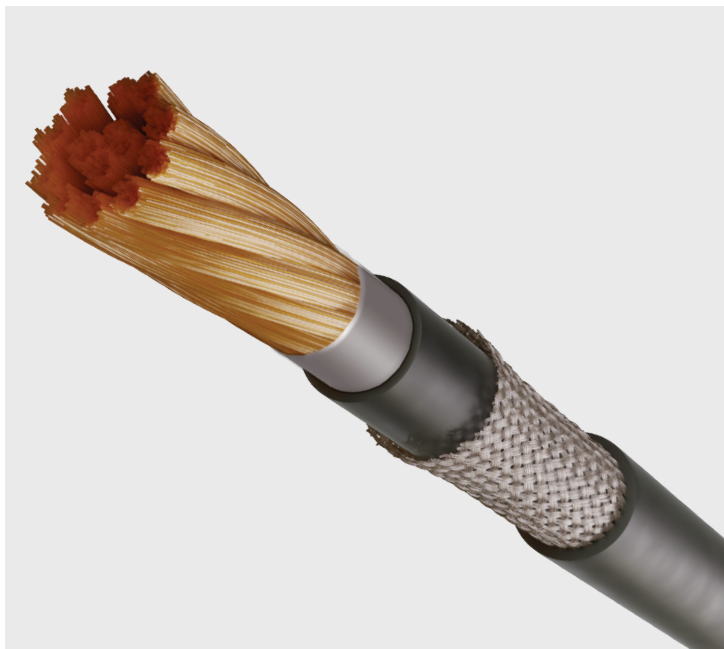
TECHNICAL NOTE:

The low capacitance ($C = \epsilon_0 \cdot \epsilon_r \cdot A/d$) of **THERMLINE**® materials ($\epsilon_r = 2.25$) reduces phase disturbances and amplitude loss in analog and digital signals. Perfect for precision sensors, fieldbuses, and PLC systems.

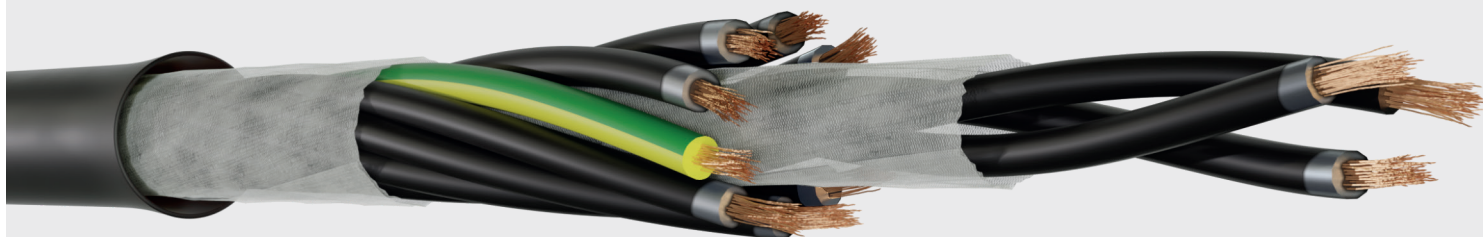
Performance applicable within declared thermal and mechanical limits.



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
CDN09X01G125-NTH		1x6	1x10	8.3	56
CDN07X01G125-NTH		1x10	1x8	9.7	94
CDN05X01G125-NTH		1x16	1x6	11.0	150
CDN03X01G125-NTH		1x25	1x4	12.0	235
CDN02X01G125-NTH		1x35	1x2	14.9	329
CDNA1X01G125-NTH		1x50	1x1	16.4	470
CDNA2X01G125-NTH		1x70	1x2/0	18.1	658
CDNA3X01G125-NTH		1x95	1x3/0	19.7	893
CDNA4X01G125-NTH		1x120	1x4/0	23.2	1128
CDNA5X01G125-NTH		1x150	1x250	24.9	1410
CDNB1X01G125-NTH		1x185	1x350	28.7	1739
CDNB2X01G125-NTH		1x240	1x450	31.1	2256
CDNB3X01G125-NTH		1x300	1x550	34.2	2820
CDNB4X01G125-NTH		1x400	1x777	41.5	3760



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
CDS09X01G125-NTH		(1x6)	(1x10)	8.9	79
CDS07X01G125-NTH		(1x10)	(1x8)	10.4	122
CDS05X01G125-NTH		(1x16)	(1x6)	11.8	183
CDS03X01G125-NTH		(1x25)	(1x4)	12.8	269
CDS02X01G125-NTH		(1x35)	(1x2)	15.8	399
CDSA1X01G125-NTH		(1x50)	(1x1)	17.3	581
CDSA2X01G125-NTH		(1x70)	(1x2/0)	19.2	766
CDSA3X01G125-NTH		(1x95)	(1x3/0)	20.8	1011
CDSA4X01G125-NTH		(1x120)	(1x4/0)	24.3	1271
CDSA5X01G125-NTH		(1x150)	1x250	25.8	1711
CDSB1X01G125-NTH		(1x185)	1x350	29.8	2101
CDSB2X01G125-NTH		(1x240)	1x450	32.2	2640
CDSB3X01G125-NTH		(1x300)	1x550	35.3	2970
CDSB4X01G125-NTH		(1x400)	1x777	42.5	3964



RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL		IsoTech + ExoThermPlus -50 °C / + 125 °C			
CHEMICAL	HF	LOW SMOKE EMISSIONS	NO -TOXIC FUMES	SAFETY	FLAME RETARDANT
ENVIRONMENTAL	OIL RESISTANT	WATER RESISTANT	MUD RESISTANT	EMC PROTECTED	UV RESISTANT

ELECTRICAL PROPERTIES

	Test Voltage	4,0 kV x 5 min acc. to EN 50395 Cl. 10.3
	Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C acc. to EN 50395 Cl. 8.1
	Max. Short Circuit Temperature	160 °C (≤ 1 s)
	Operating Voltage	U ₀ /U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	0.50 ÷ 2.50 mm ²	Wide range for control and signal
Number of Conductors	Up to 48	Flexible configurations
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20°C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

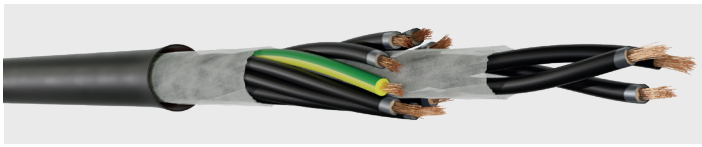
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

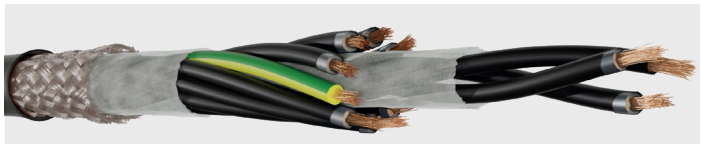
TECHNICAL NOTE:

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Performance applicable within declared thermal and mechanical limits.



	MotionCables code	EPlan Code	Formation	AWG	Ø	Cu
			mm ²		mm	kg / km
0,50	MDN21X02G125-NTH		2x0.50	2x21	7.20	9
	MDN21G03G125-NTH		3G0.50	3x21	8.10	14
	MDN21G04G125-NTH		4G0.50	4x21	8.80	19
	MDN21G05G125-NTH		5G0.50	5x21	9.60	24
	MDN21G07G125-NTH		7G0.50	7x21	11.20	33
	MDN21G12G125-NTH		12G0.50	12x21	16.10	56
	MDN21G18G125-NTH		18G0.50	18x21	20.50	85
	MDN21G25G125-NTH		25G0.50	25x21	26.00	118
	MDN21G34G125-NTH		34G0.50	34x21	35.40	160
	MDN21G41G125-NTH		41G0.50	41x21	40.40	193
	MDN19X02G125-NTH		2x0.75	2x19	7.60	14
	MDN19G03G125-NTH		3G0.75	3x19	8.60	21
0,75	MDN19G04G125-NTH		4G0.75	4x19	9.30	28
	MDN19G05G125-NTH		5G0.75	5x19	10.10	35
	MDN19G07G125-NTH		7G0.75	7x19	11.80	49
	MDN19G12G125-NTH		12G0.75	12x19	17.10	85
	MDN19G18G125-NTH		18G0.75	18x19	23.80	127
	MDN19G25G125-NTH		25G0.75	25x19	29.80	176
	MDN19G34G125-NTH		34G0.75	34x19	37.80	240
	MDN19G41G125-NTH		41G0.75	41x19	44.80	289
	MDN17X02G125-NTH		2x1.0	2x18	7.90	19
	MDN17G03G125-NTH		3G1.0	3x18	9.00	28
	MDN17G04G125-NTH		4G1.0	4x18	9.80	38
	MDN17G05G125-NTH		5G1.0	5x18	10.60	47
1,0	MDN17G07G125-NTH		7G1.0	7x18	12.50	66
	MDN17G12G125-NTH		12G1.0	12x18	18.10	113
	MDN17G18G125-NTH		18G1.0	18x18	24.90	169
	MDN17G25G125-NTH		25G1.0	25x18	31.60	235
	MDN17G34G125-NTH		34G1.0	34x18	40.20	320
	MDN17G41G125-NTH		41G1.0	41x18	47.60	385
	MDN15X02G125-NTH		2x1.50	2x16	8.30	28
	MDN15G03G125-NTH		3G1.50	3x16	9.40	42
	MDN15G04G125-NTH		4G1.50	4x16	10.30	56
	MDN15G05G125-NTH		5G1.50	5x16	11.20	71
	MDN15G07G125-NTH		7G1.50	7x16	14.00	99
	MDN15G12G125-NTH		12G1.50	12x16	19.10	169
1,50	MDN15G18G125-NTH		18G1.50	18x16	26.20	254
	MDN15G25G125-NTH		25G1.50	25x16	33.40	353
	MDN15G34G125-NTH		34G1.50	34x16	44.20	479
	MDN15G41G125-NTH		41G1.50	41x16	50.30	578
	MDN13X02G125-NTH		2x2.50	2x14	9.20	47
	MDN13G03G125-NTH		3G2.50	3x14	10.50	71
	MDN13G04G125-NTH		4G2.50	4x14	11.50	94
	MDN13G05G125-NTH		5G2.50	5x14	13.30	118
	MDN13G07G125-NTH		7G2.50	7x14	15.60	165
	MDN13G12G125-NTH		12G2.50	12x14	22.50	282
	MDN13G18G125-NTH		18G2.50	18x14	29.60	423
	MDN13G25G125-NTH		25G2.50	25x14	37.90	588
2,50	MDN13G34G125-NTH		34G2.50	34x14	50.20	799
	MDN13G41G125-NTH		41G2.50	41x14	57.60	964



	MotionCables code	EPlan Code	Formation	AWG	Ø	Cu
			mm ²		mm	kg / km
0,50	MDS21X02G125-NTH		(2x0.50)	(2x21)	7.80	33
	MDS21G03G125-NTH		(3G0.50)	(3x21)	8.70	39
	MDS21G04G125-NTH		(4G0.50)	(4x21)	9.40	46
	MDS21G05G125-NTH		(5G0.50)	(5x21)	9.80	54
	MDS21G07G125-NTH		(7G0.50)	(7x21)	11.80	70
	MDS21G12G125-NTH		(12G0.50)	(12x21)	16.90	100
	MDS21G18G125-NTH		(18G0.50)	(18x21)	22.90	153
	MDS21G25G125-NTH		(25G0.50)	(25x21)	28.90	202
	MDS21G34G125-NTH		(34G0.50)	(34x21)	36.40	258
	MDS21G41G125-NTH		(41G0.50)	(41x21)	41.60	311
	MDS19X02G125-NTH		(2x0.75)	(2x19)	8.10	41
	MDS19G03G125-NTH		(3G0.75)	(3x19)	9.10	48
0,75	MDS19G04G125-NTH		(4G0.75)	(4x19)	9.90	59
	MDS19G05G125-NTH		(5G0.75)	(5x19)	10.70	69
	MDS19G07G125-NTH		(7G0.75)	(7x19)	12.50	90
	MDS19G12G125-NTH		(12G0.75)	(12x19)	17.90	129
	MDS19G18G125-NTH		(18G0.75)	(18x19)	24.45	205
	MDS19G25G125-NTH		(25G0.75)	(25x19)	30.70	271
	MDS19G34G125-NTH		(34G0.75)	(34x19)	39.00	332
	MDS19G41G125-NTH		(41G0.75)	(41x19)	46.10	391
	MDS17X02G125-NTH		(2x1.0)	(2x18)	8.60	46
	MDS17G03G125-NTH		(3G1.0)	(3x18)	9.70	57
	MDS17G04G125-NTH		(4G1.0)	(4x18)	10.40	70
	MDS17G05G125-NTH		(5G1.0)	(5x18)	11.20	81
1,0	MDS17G07G125-NTH		(7G1.0)	(7x18)	14.00	110
	MDS17G12G125-NTH		(12G1.0)	(12x18)	18.90	182
	MDS17G18G125-NTH		(18G1.0)	(18x18)	25.80	254
	MDS17G25G125-NTH		(25G1.0)	(25x18)	32.50	365
	MDS17G34G125-NTH		(34G1.0)	(34x18)	41.40	463
	MDS17G41G125-NTH		(41G1.0)	(41x18)	48.90	542
	MDS15X02G125-NTH		(2x1.50)	(2x16)	8.90	58
	MDS15G03G125-NTH		(3G1.50)	(3x16)	10.00	75
	MDS15G04G125-NTH		(4G1.50)	(4x16)	10.80	91
	MDS15G05G125-NTH		(5G1.50)	(5x16)	11.90	112
	MDS15G07G125-NTH		(7G1.50)	(7x16)	14.70	145
	MDS15G12G125-NTH		(12G1.50)	(12x16)	20.00	247
1,50	MDS15G18G125-NTH		(18G1.50)	(18x16)	27.00	348
	MDS15G25G125-NTH		(25G1.50)	(25x16)	34.30	498
	MDS15G34G125-NTH		(34G1.50)	(34x16)	45.40	700
	MDS15G41G125-NTH		(41G1.50)	(41x16)	51.70	844
	MDS13X02G125-NTH		(2x2.50)	(2x14)	9.70	95
	MDS13G03G125-NTH		(3G2.50)	(3x14)	11.00	115
	MDS13G04G125-NTH		(4G2.50)	(4x14)	12.20	155
	MDS13G05G125-NTH		(5G2.50)	(5x14)	14.00	185
	MDS13G07G125-NTH		(7G2.50)	(7x14)	16.40	250
	MDS13G12G125-NTH		(12G2.50)	(12x14)	23.30	388
	MDS13G18G125-NTH		(18G2.50)	(18x14)	29.90	552
	MDS13G25G125-NTH		(25G2.50)	(25x14)	38.20	750
2,50	MDS13G34G125-NTH		(34G2.50)	(34x14)	51.50	1016
	MDS13G41G125-NTH		(41G2.50)	(41x14)	58.90	1234



RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL	IsoTech + ExoThermPlus -50 °C / + 125 °C						
CHEMICAL	 HALOGEN FREE	 LOW SMOKE EMISSIONS	 NO -TOXIC FUMES	SAFETY		 FLAME RETARDANT	 FIRE RESISTANT
ENVIRONMENTAL	 OIL RESISTANT	 WATER RESISTANT	 MUD RESISTANT	 EMC PROTECTED	 UV RESISTANT	 MICROBE RESISTANT	 OZONE RESISTANT

ELECTRICAL PROPERTIES

Test
Voltage4,0 kV x 5 min
acc. to
EN 50395 Cl. 10.3Insulation
Resistance≥ 1.0 GΩ/km
@ 20 °C
acc. to
EN 50395 Cl. 8.1Max. Short
Circuit
Temperature

160 °C (≤ 1 s)

Operating
Voltage U_0/U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	4÷120 mm ²	Wide range for control and signal
Number of Conductors	Up to 4	Flexible configurations
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20°C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

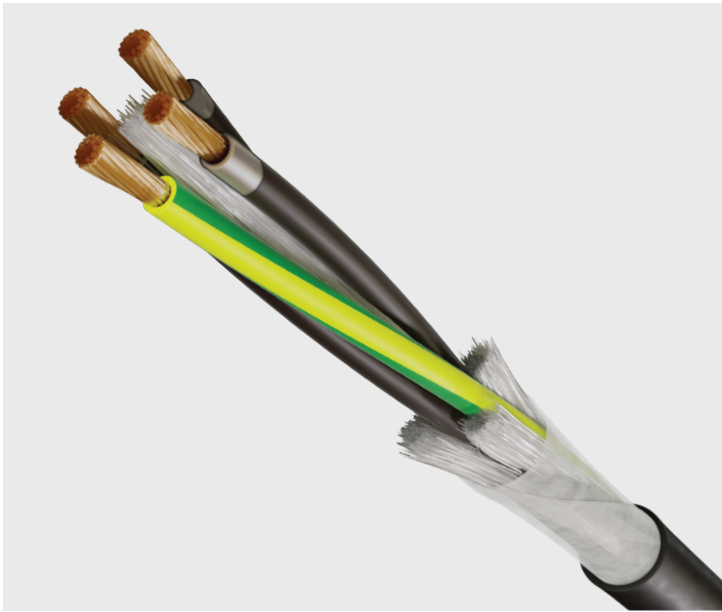
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

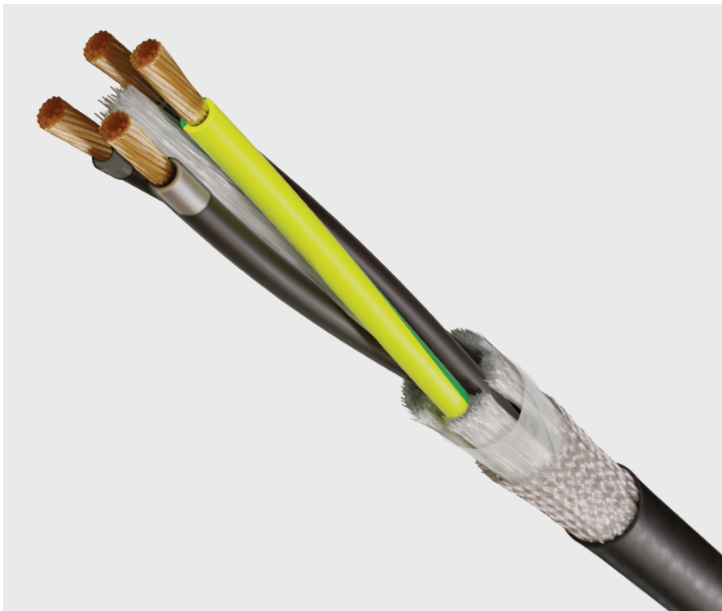
TECHNICAL NOTE:

The low capacitance ($C = \epsilon_0 \cdot \epsilon_r \cdot A/d$) of **THERMLINE**® materials ($\epsilon_r = 2.25$) reduces phase disturbances and amplitude loss in analog and digital signals. Perfect for precision sensors, fieldbuses, and PLC systems.

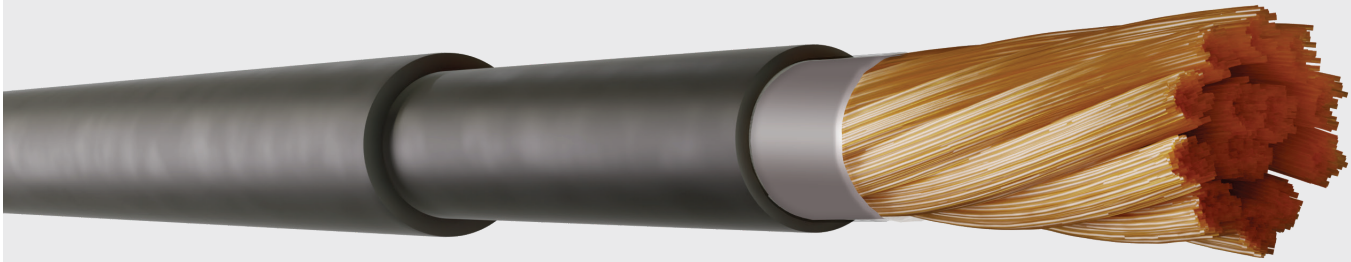
Performance applicable within declared thermal and mechanical limits.



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		mm ²		mm	kg / km
PDN11G03G125-GTH		3G4.0	3x12	11.70	113
PDN11G04G125-GTH		4G4.0	4x12	13.60	150
PDN11G05G125-GTH		5G4.0	5x12	14.80	188
PDN11G07G125-GTH		7G4.0	7x12	17.50	263
PDN09G04G125-GTH		4G6.0	4x10	15.60	226
PDN07G04G125-GTH		4G10	4x8	19.50	376
PDN05G04G125-GTH		4G16	4x6	23.60	602
PDN03G04G125-GTH		4G25	4x4	26.00	940
PDN02G04G125-GTH		4G35	4x2	31.60	1316
PDNA1G04G125-GTH		4G50	4x1	35.00	1880
PDNA2G04G125-GTH		4G70	4x2/0	39.00	2632
PDNA3G04G125-GTH		4G95	4x3/0	44.50	3572
PDNA4G04G125-GTH		4G120	4x4/0	50.80	4512



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		mm ²		mm	kg / km
PDS11G03G125-GTH		(3G4.0)C	(3x12)	12.40	79
PDS11G04G125-GTH		(4G4.0)C	(4x12)	14.20	122
PDS11G05G125-GTH		(5G4.0)C	(5x12)	15.60	183
PDS11G07G125-GTH		(7G4.0)C	(7x12)	18.40	269
PDS09G04G125-GTH		(4G6.0)C	(4x10)	16.20	399
PDS07G04G125-GTH		(4G10)C	(4x8)	20.50	581
PDS05G04G125-GTH		(4G16)C	(4x6)	24.60	766
PDS03G04G125-GTH		(4G25)C	(4x4)	27.00	1011
PDS02G04G125-GTH		(4G35)C	(4x2)	32.70	1271
PDSA1G04G125-GTH		(4G50)C	(4x1)	36.10	1711
PDSA2G04G125-GTH		(4G70)C	(4x2/0)	40.40	2101
PDSA3G04G125-GTH		(4G95)C	(4x3/0)	45.80	2640
PDSA4G04G125-GTH		(4G120)C	(4x4/0)	52.10	2970



RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL		FlexiTherm + ExoTherm -40 °C / + 105 °C					
CHEMICAL				SAFETY			
	HALOGEN FREE	LOW SMOKE EMISSIONS	NO -TOXIC FUMES		FLAME RETARDANT	FIRE RESISTANT	
ENVIRONMENTAL							
	OIL RESISTANT	WATER RESISTANT	MUD RESISTANT	EMC PROTECTED	UV RESISTANT	MICROBE RESISTANT	
						OZONE RESISTANT	

ELECTRICAL PROPERTIES

 Test Voltage	4,0 kV x 5 min acc. to EN 50395 Cl. 10.3
 Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C acc. to EN 50395 Cl. 8.1
 Max. Short Circuit Temperature	160 °C (≤ 1 s)
 Operating Voltage	U ₀ /U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	0.50 ÷ 2.50 mm ²	Wide range for control and signal
Number of Conductors	Up to 48	Flexible configurations
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20°C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

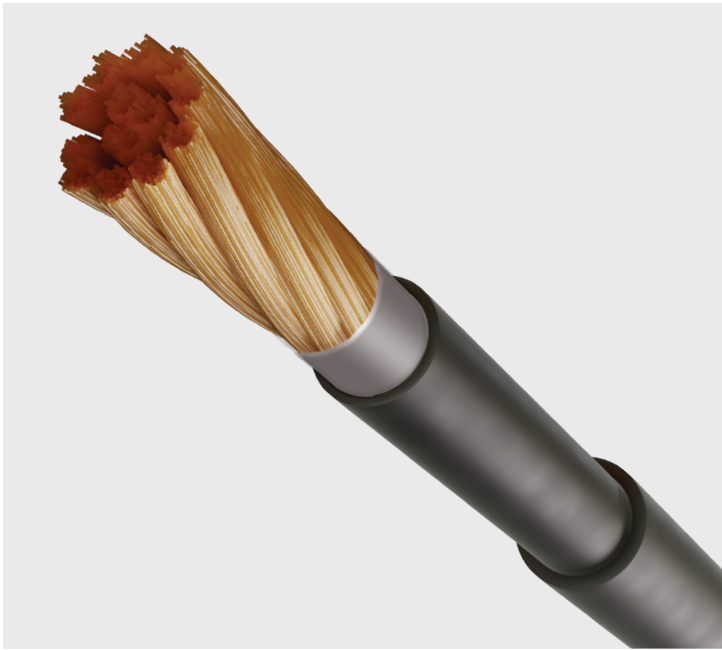
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

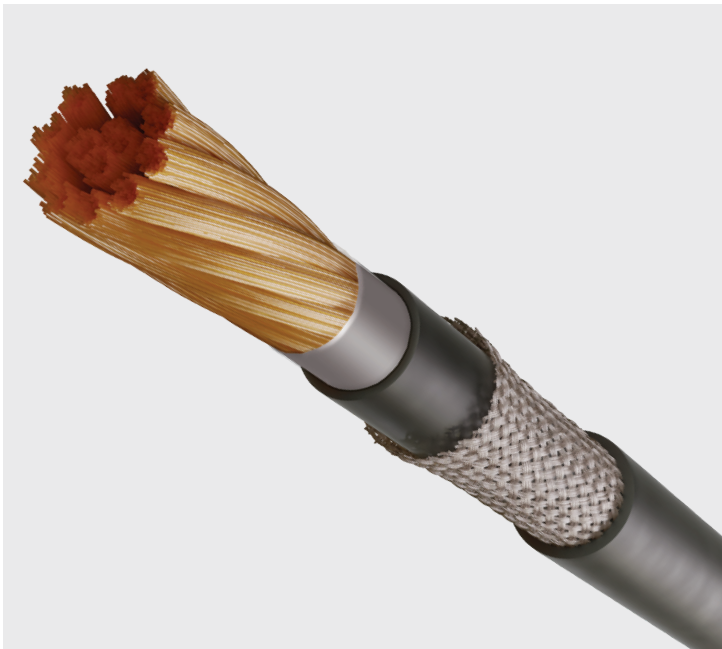
TECHNICAL NOTE:

The low capacitance ($C = \epsilon_0 \cdot \epsilon_r \cdot A/d$) of **THERMLINE®** materials ($\epsilon_r = 2.25$) reduces phase disturbances and amplitude loss in analog and digital signals. Perfect for precision sensors, fieldbuses, and PLC systems.

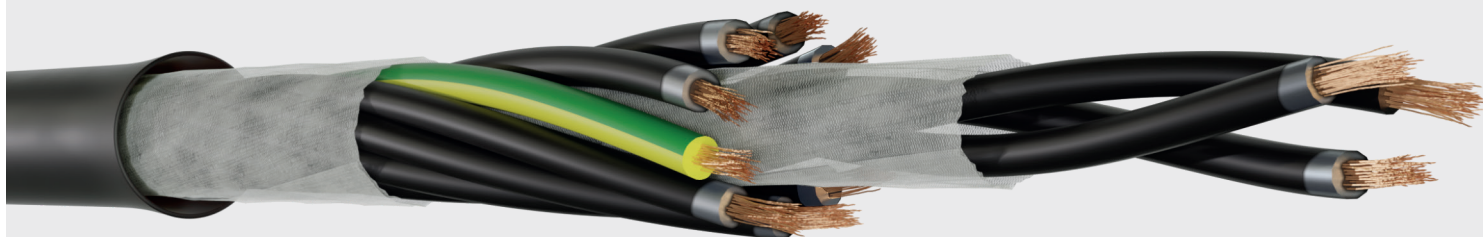
Performance applicable within declared thermal and mechanical limits.



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
CDN09X01G105-NTH		1x6	1x10	8.3	56
CDN07X01G105-NTH		1x10	1x8	9.7	94
CDN05X01G105-NTH		1x16	1x6	11.0	150
CDN03X01G105-NTH		1x25	1x4	12.0	235
CDN02X01G105-NTH		1x35	1x2	14.9	329
CDNA1X01G105-NTH		1x50	1x1	16.4	470
CDNA2X01G105-NTH		1x70	1x2/0	18.1	658
CDNA3X01G105-NTH		1x95	1x3/0	19.7	893
CDNA4X01G105-NTH		1x120	1x4/0	23.2	1128
CDNA5X01G105-NTH		1x150	1x250	24.9	1410
CDNB1X01G105-NTH		1x185	1x350	28.7	1739
CDNB2X01G105-NTH		1x240	1x450	31.1	2256
CDNB3X01G105-NTH		1x300	1x550	34.2	2820
CDNB4X01G105-NTH		1x400	1x777	41.5	3760



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
CDS09X01G105-NTH		(1x6)	(1x10)	8.9	79
CDS07X01G105-NTH		(1x10)	(1x8)	10.4	122
CDS05X01G105-NTH		(1x16)	(1x6)	11.8	183
CDS03X01G105-NTH		(1x25)	(1x4)	12.8	269
CDS02X01G105-NTH		(1x35)	(1x2)	15.8	399
CDSA1X01G105-NTH		(1x50)	(1x1)	17.3	581
CDSA2X01G105-NTH		(1x70)	(1x2/0)	19.2	766
CDSA3X01G105-NTH		(1x95)	(1x3/0)	20.8	1011
CDSA4X01G105-NTH		(1x120)	(1x4/0)	24.3	1271
CDSA5X01G105-NTH		(1x150)	1x250	25.8	1711
CDSB1X01G105-NTH		(1x185)	1x350	29.8	2101
CDSB2X01G105-NTH		(1x240)	1x450	32.2	2640
CDSB3X01G105-NTH		(1x300)	1x550	35.3	2970
CDSB4X01G105-NTH		(1x400)	1x777	42.5	3964



RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL		FlexiTherm + ExoTherm -40 °C / + 105 °C					
CHEMICAL				SAFETY			
	HALOGEN FREE	LOW SMOKE EMISSIONS	NO -TOXIC FUMES			FLAME RETARDANT	FIRE RESISTANT
ENVIRONMENTAL							
	OIL RESISTANT	WATER RESISTANT	MUD RESISTANT	EMC PROTECTED	UV RESISTANT	MICROBE RESISTANT	OZONE RESISTANT

ELECTRICAL PROPERTIES

 Test Voltage	4,0 kV x 5 min acc. to EN 50395 Cl. 10.3
 Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C acc. to EN 50395 Cl. 8.1
 Max. Short Circuit Temperature	160 °C (≤ 1 s)
 Operating Voltage	U ₀ /U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	0.50÷2.50 mm ²	Wide range for control and signal
Number of Conductors	Up to 48	Flexible configurations
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20 °C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

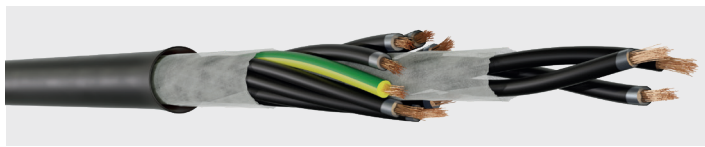
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

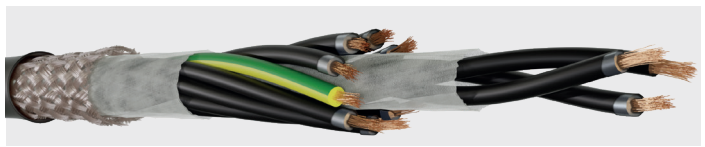
TECHNICAL NOTE:

The low capacitance ($C = \epsilon_0 \cdot \epsilon_r \cdot A/d$) of **THERMLINE®** materials ($\epsilon_r = 2.25$) reduces phase disturbances and amplitude loss in analog and digital signals. Perfect for precision sensors, fieldbuses, and PLC systems.

Performance applicable within declared thermal and mechanical limits.



	MotionCables code	EPlan Code	Formation	AWG	Ø	Cu
			mm ²		mm	kg / km
0,50	MDN21X02G105-NTH		2x0.50	2x21	7.20	9
	MDN21G03G105-NTH		3G0.50	3x21	8.10	14
	MDN21G04G105-NTH		4G0.50	4x21	8.80	19
	MDN21G05G105-NTH		5G0.50	5x21	9.60	24
	MDN21G07G105-NTH		7G0.50	7x21	11.20	33
	MDN21G12G105-NTH		12G0.50	12x21	16.10	56
	MDN21G18G105-NTH		18G0.50	18x21	20.50	85
	MDN21G25G105-NTH		25G0.50	25x21	26.00	118
	MDN21G34G105-NTH		34G0.50	34x21	35.40	160
	MDN21G41G105-NTH		41G0.50	41x21	40.40	193
	MDN19X02G105-NTH		2x0.75	2x19	7.60	14
	MDN19G03G105-NTH		3G0.75	3x19	8.60	21
0,75	MDN19G04G105-NTH		4G0.75	4x19	9.30	28
	MDN19G05G105-NTH		5G0.75	5x19	10.10	35
	MDN19G07G105-NTH		7G0.75	7x19	11.80	49
	MDN19G12G105-NTH		12G0.75	12x19	17.10	85
	MDN19G18G105-NTH		18G0.75	18x19	23.80	127
	MDN19G25G105-NTH		25G0.75	25x19	29.80	176
	MDN19G34G105-NTH		34G0.75	34x19	37.80	240
	MDN19G41G105-NTH		41G0.75	41x19	44.80	289
	MDN17X02G105-NTH		2x1.0	2x18	7.90	19
	MDN17G03G105-NTH		3G1.0	3x18	9.00	28
	MDN17G04G105-NTH		4G1.0	4x18	9.80	38
	MDN17G05G105-NTH		5G1.0	5x18	10.60	47
1,0	MDN17G07G105-NTH		7G1.0	7x18	12.50	66
	MDN17G12G105-NTH		12G1.0	12x18	18.10	113
	MDN17G18G105-NTH		18G1.0	18x18	24.90	169
	MDN17G25G105-NTH		25G1.0	25x18	31.60	235
	MDN17G34G105-NTH		34G1.0	34x18	40.20	320
	MDN17G41G105-NTH		41G1.0	41x18	47.60	385
	MDN15X02G105-NTH		2x1.50	2x16	8.30	28
	MDN15G03G105-NTH		3G1.50	3x16	9.40	42
	MDN15G04G105-NTH		4G1.50	4x16	10.30	56
	MDN15G05G105-NTH		5G1.50	5x16	11.20	71
	MDN15G07G105-NTH		7G1.50	7x16	14.00	99
	MDN15G12G105-NTH		12G1.50	12x16	19.10	169
1,50	MDN15G18G105-NTH		18G1.50	18x16	26.20	254
	MDN15G25G105-NTH		25G1.50	25x16	33.40	353
	MDN15G34G105-NTH		34G1.50	34x16	44.20	479
	MDN15G41G105-NTH		41G1.50	41x16	50.30	578
	MDN13X02G105-NTH		2x2.50	2x14	9.20	47
	MDN13G03G105-NTH		3G2.50	3x14	10.50	71
	MDN13G04G105-NTH		4G2.50	4x14	11.50	94
	MDN13G05G105-NTH		5G2.50	5x14	13.30	118
	MDN13G07G105-NTH		7G2.50	7x14	15.60	165
	MDN13G12G105-NTH		12G2.50	12x14	22.50	282
	MDN13G18G105-NTH		18G2.50	18x14	29.60	423
	MDN13G25G105-NTH		25G2.50	25x14	37.90	588
2,50	MDN13G34G105-NTH		34G2.50	34x14	50.20	799
	MDN13G41G105-NTH		41G2.50	41x14	57.60	964



	MotionCables code	EPlan Code	Formation	AWG	Ø	Cu
			mm ²		mm	kg / km
0,50	MDS21X02G105-NTH		(2x0.50)	(2x21)	7.80	33
	MDS21G03G105-NTH		(3G0.50)	(3x21)	8.70	39
	MDS21G04G105-NTH		(4G0.50)	(4x21)	9.40	46
	MDS21G05G105-NTH		(5G0.50)	(5x21)	9.80	54
	MDS21G07G105-NTH		(7G0.50)	(7x21)	11.80	70
	MDS21G12G105-NTH		(12G0.50)	(12x21)	16.90	100
	MDS21G18G105-NTH		(18G0.50)	(18x21)	22.90	153
	MDS21G25G105-NTH		(25G0.50)	(25x21)	28.90	202
	MDS21G34G105-NTH		(34G0.50)	(34x21)	36.40	258
	MDS21G41G105-NTH		(41G0.50)	(41x21)	41.60	311
	MDS19X02G105-NTH		(2x0.75)	(2x19)	8.10	41
	MDS19G03G105-NTH		(3G0.75)	(3x19)	9.10	48
0,75	MDS19G04G105-NTH		(4G0.75)	(4x19)	9.90	59
	MDS19G05G105-NTH		(5G0.75)	(5x19)	10.70	69
	MDS19G07G105-NTH		(7G0.75)	(7x19)	12.50	90
	MDS19G12G105-NTH		(12G0.75)	(12x19)	17.90	129
	MDS19G18G105-NTH		(18G0.75)	(18x19)	24.45	205
	MDS19G25G105-NTH		(25G0.75)	(25x19)	30.70	271
	MDS19G34G105-NTH		(34G0.75)	(34x19)	39.00	332
	MDS19G41G105-NTH		(41G0.75)	(41x19)	46.10	391
	MDS17X02G105-NTH		(2x1.0)	(2x18)	8.60	46
	MDS17G03G105-NTH		(3G1.0)	(3x18)	9.70	57
	MDS17G04G105-NTH		(4G1.0)	(4x18)	10.40	70
	MDS17G05G105-NTH		(5G1.0)	(5x18)	11.20	81
1,0	MDS17G07G105-NTH		(7G1.0)	(7x18)	14.00	110
	MDS17G12G105-NTH		(12G1.0)	(12x18)	18.90	182
	MDS17G18G105-NTH		(18G1.0)	(18x18)	25.80	254
	MDS17G25G105-NTH		(25G1.0)	(25x18)	32.50	365
	MDS17G34G105-NTH		(34G1.0)	(34x18)	41.40	463
	MDS17G41G105-NTH		(41G1.0)	(41x18)	48.90	542
	MDS15X02G105-NTH		(2x1.50)	(2x16)	8.90	58
	MDS15G03G105-NTH		(3G1.50)	(3x16)	10.00	75
	MDS15G04G105-NTH		(4G1.50)	(4x16)	10.80	91
	MDS15G05G105-NTH		(5G1.50)	(5x16)	11.90	112
	MDS15G07G105-NTH		(7G1.50)	(7x16)	14.70	145
	MDS15G12G105-NTH		(12G1.50)	(12x16)	20.00	247
1,50	MDS15G18G105-NTH		(18G1.50)	(18x16)	27.00	348
	MDS15G25G105-NTH		(25G1.50)	(25x16)	34.30	498
	MDS15G34G105-NTH		(34G1.50)	(34x16)	45.40	700
	MDS15G41G105-NTH		(41G1.50)	(41x16)	51.70	844
	MDS13X02G105-NTH		(2x2.50)	(2x14)	9.70	95
	MDS13G03G105-NTH		(3G2.50)	(3x14)	11.00	115
	MDS13G04G105-NTH		(4G2.50)	(4x14)	12.20	155
	MDS13G05G105-NTH		(5G2.50)	(5x14)	14.00	185
	MDS13G07G105-NTH		(7G2.50)	(7x14)	16.40	250
	MDS13G12G105-NTH		(12G2.50)	(12x14)	23.30	388
	MDS13G18G105-NTH		(18G2.50)	(18x14)	29.90	552
	MDS13G25G105-NTH		(25G2.50)	(25x14)	38.20	750
2,50	MDS13G34G105-NTH		(34G2.50)	(34x14)	51.50	1016
	MDS13G41G105-NTH		(41G2.50)	(41x14)	58.90	1234



RESISTANCE TO THERMAL, AGGRESSIVE CHEMICAL THREATS AND ENVIRONMENTAL

THERMAL		FlexiTherm + ExoTherm -40 °C / + 105 °C					
CHEMICAL				SAFETY			
	HALOGEN FREE	LOW SMOKE EMISSIONS	NO -TOXIC FUMES		FLAME RETARDANT	FIRE RESISTANT	
ENVIRONMENTAL							
	OIL RESISTANT	WATER RESISTANT	MUD RESISTANT	EMC PROTECTED	UV RESISTANT	MICROBE RESISTANT	OZONE RESISTANT

ELECTRICAL PROPERTIES

**Test Voltage**4,0 kV x 5 min
acc. to
EN 50395 Cl. 10.3**Insulation Resistance**≥ 1.0 GΩ/km
@ 20 °C
acc. to
EN 50395 Cl. 8.1**Max. Short Circuit Temperature**

160 °C (≤ 1 s)

**Operating Voltage** U_0/U 0.6/1.0 kV (IEC)

MAIN CHARACTERISTICS

Property	Typical Value	Advantage
Conductor Cross-Section	0.50÷2.50 mm ²	Wide range for control and signal
Number of Conductors	Up to 48	Flexible configurations
Parasitic Capacitance	45 pF/m	Improved signal transmission
Shielding	Copper Braid / Aluminium-PET	EMC protection
Insulation Resistance	≥ 1.0 GΩ/km @ 20°C	Electrical safety
Dynamic Flexibility	>5 M cycles	Mobile installation and robotics

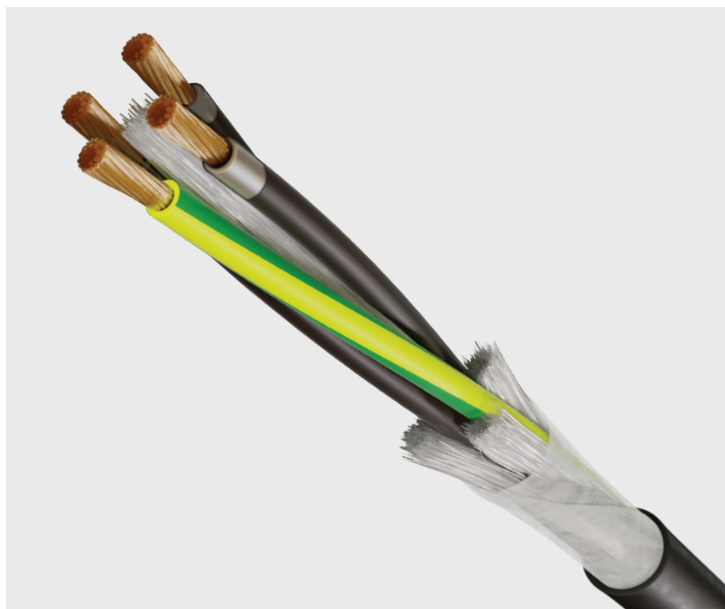
APPLICATION BENEFITS

Low Capacitance	Stable signal even over long distances.
Dual Insulation	Constant insulation even in humid or oily environments.
EMC Shielding	Reduction of interference in command lines and sensors.
Extreme Flexibility	Ideal for cable carriers and robotics.

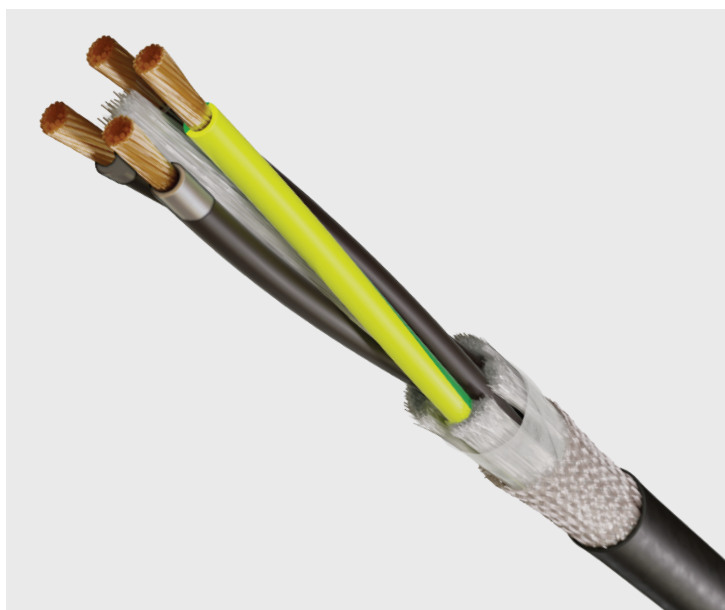
TECHNICAL NOTE:

The low capacitance ($C = \epsilon_0 \cdot \epsilon_r \cdot A/d$) of **THERMLINE**® materials ($\epsilon_r = 2.25$) reduces phase disturbances and amplitude loss in analog and digital signals. Perfect for precision sensors, fieldbuses, and PLC systems.

Performance applicable within declared thermal and mechanical limits.



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
PDN11G03G105-GTH		3G4.0	3x12	11.70	113
PDN11G04G105-GTH		4G4.0	4x12	13.60	150
PDN11G05G105-GTH		5G4.0	5x12	14.80	188
PDN11G07G105-GTH		7G4.0	7x12	17.50	263
PDN09G04G105-GTH		4G6.0	4x10	15.60	226
PDN07G04G105-GTH		4G10	4x8	19.50	376
PDN05G04G105-GTH		4G16	4x6	23.60	602
PDN03G04G105-GTH		4G25	4x4	26.00	940
PDN02G04G105-GTH		4G35	4x2	31.60	1316
PDNA1G04G105-GTH		4G50	4x1	35.00	1880
PDNA2G04G105-GTH		4G70	4x2/0	39.00	2632
PDNA3G04G105-GTH		4G95	4x3/0	44.50	3572
PDNA4G04G105-GTH		4G120	4x4/0	50.80	4512



MotionCables code	EPlan Code	Formation	AWG Kcmil	Ø	Cu
		<i>mm²</i>		<i>mm</i>	<i>kg / km</i>
PDS11G03G105-GTH		(3G4.0)C	(3x12)	12.40	79
PDS11G04G105-GTH		(4G4.0)C	(4x12)	14.20	122
PDS11G05G105-GTH		(5G4.0)C	(5x12)	15.60	183
PDS11G07G105-GTH		(7G4.0)C	(7x12)	18.40	269
PDS09G04G105-GTH		(4G6.0)C	(4x10)	16.20	399
PDS07G04G105-GTH		(4G10)C	(4x8)	20.50	581
PDS05G04G105-GTH		(4G16)C	(4x6)	24.60	766
PDS03G04G105-GTH		(4G25)C	(4x4)	27.00	1011
PDS02G04G105-GTH		(4G35)C	(4x2)	32.70	1271
PDSA1G04G105-GTH		(4G50)C	(4x1)	36.10	1711
PDSA2G04G105-GTH		(4G70)C	(4x2/0)	40.40	2101
PDSA3G04G105-GTH		(4G95)C	(4x3/0)	45.80	2640
PDSA4G04G105-GTH		(4G120)C	(4x4/0)	52.10	2970

[illegible]

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