

MOTIONSERVO MOTIONHYBRID

CABLE SOLUTIONS FOR SMART NEXT-GENERATION AUTOMATION

Summary of the icons you will find in the catalogue pages, grouped by relevant area

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS



OIL RESISTANT





OIL RESISTANT







FIRE RESISTANT TEMPOR OUTDOOR

BALANCED APPLICATION &







HALOGEN FREE



COLD RESISTANT



RESISTANT







FLAME RETARDANT











OZONE RESISTANT MUD RESISTANT

DURABILITY IN MECHANICAL & THERMAL CONDITIONS









EMC PROTECTED WATER RESISTANT















DEMI-STATIC

DYNAMIC

DVNAMIC SELF/SUPPORTED

HIGH-DYNAMIC

MIN. BENDING RADIUS

MAX. SPEED

STANDARD INTEGRATED COMPLIANCE

ACCELERATION

PULLING FORCE

TORSION

MAX. HORIZ. TRAVEL

ELECTRICAL PROPERTIES







INSULATION RESISTANCE



MAX. SHORT



TEST VOLTAGE

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.

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Safety notice.

The cables and wires described in the catalogue are produced in accordance with national and international standards, as well as plant standards; application safety, as stipulated in the safety directives, standards, and statutory regulations, as amended, are provided. Following proper installation and usage guidelines, the possibility of product-specific dangers can be excluded. This catalogue describes general information for each product's use. Installation and processing must only be executed by qualified electricians.

CONTENTS

| V | 101 | N | S | Ы | R۱ | /(| C |
|---|-----|---|---|---|----|----|---|
| | | | | | | | |

MOTIONSERVO LCX

MOTION**HYBRID**

FOR STATIC AND DYNAMIC APPLICATIONS - SHIELDED AND UNSHIELDED VERSIONS

MOTION**SERVO** cables are designed to connect servo motors to their respective drives or inverters. In addition to transmitting electrical power, they can also include dedicated lines for brake control, motor thermal protection (thermistors, PTC, KTY), and other auxiliary signals. These cables are developed for high-stress industrial environments, making them suitable for both static installations and dynamic applications, such as in cable carriers.

Available in **Basic**, **Dynamic**, and **High Dynamic** Performance versions, all cables comply with the connection specifications of leading OEMs, including:

- 4 power conductors.
- 1 or more shielded pairs for command or feedback signals.
- Layout according to the standards of: Siemens®, SEW®, Lenze®, Bosch Rexroth®, and Schneider Electric®.
- Available cross-sections: from 0.50 to 185 mm².
- Insulation made from PP or XL-PE with a low dielectric constant.
- Sheath material: PVC(Basic), PVC TM5 (Dynamic), PUR FRHF (High Dynamic).
- Shielding: Tinned copper braid with >85% optical coverage.

All cables from the MOTION**SERVO** family are available in three application levels:

| Level | Name | Features |
|-------|-----------------------------|--|
| ВР | BASIC PERFORMANCE | For fixed installation or occasional movement. |
| DP | DYNAMIC PERFORMANCE | For standard dynamic motion (light robotics, linear automation). |
| НР | HIGH DYNAMIC PERFORMANCE | For high dynamics, long travel distances, and high acceleration (CNC, packaging, advanced robotics). |

Regardless of the application level, all products share these common characteristics and are resistant to:

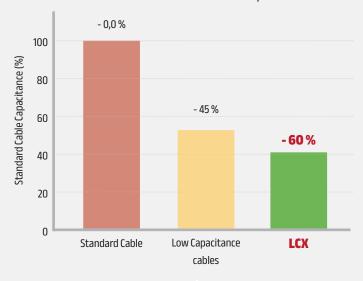
- ⊙ Industrial Oils.
- Water (for installation in humid or wet environments).
- Operating Temperature: from -40 °C to +90 °C (varies based on the jacket material).
- \circ Rated Voltage: typically 600/1000V (UL), U₂/U 0.6/1.0 kV (IEC).
- Jacket Materials:
 - PUR FRHF (high flexibility, chemical resistance).
 - PVC TM5 (cost-effective).

| Configuration | Content | Typical Applications | Main Advantages | Available Levels |
|------------------------------|---|--|--|------------------|
| 4-Pole | • 3 phases (U, V, W) | Motors without a brake or sensors | Simple and cost-effective | ВР |
| (Power Only) | • 1PE (YE/GN) | Conveyors, fans, pumps, simple axes | • Easy to install | DP |
| (rosser omy) | | | | НР |
| | • 3 phases (U, V, W) | Motors with a brake or thermal sensor | • Power + signal in a single cable | ВР |
| 4-Pole +1Shielded Pair | 1PE (YE/GN)1shielded pair (brake or | Standard automated systems | Optimal for cable carriersReduces wiring | DP |
| · I Siliciaca Fali | thermistor) | | neddees wiinig | НР |
| | • 3 phases (U, V, W) | Systems with extended control | Full versatility | ВР |
| 4-Pole + 2 Shielded Pairs | 1PE (YE/GN)2 shielded pairs (brake + | Motors with a brake + thermal protection | Better signal managementMaximum integration | DP |
| + 2 Sillelueu PairS | sensors) | protection | Maximumintegration | НР |
| | • 3 phases (U, V, W) | • SEW® motors | According to SEW® | ВР |
| 4-Pole +1Shielded Triple | 1PE (YE/GN)1shielded triple (brake, | Systems with a shared three-wire interface | A single cable for multiple functions | DP |
| · 13melded Imple | thermistor, common) | incirace | Robust for dynamic installation | НР |

MOTIONSERVOCORE LCX

LCX = Low Capacitance eXtended NEW OEM-APPROVED TECHNOLOGY

Thanks to the adoption of an optimized structure with ultra-low parasitic capacitance (25% lower than existing Low Capacitance standards), these cables offer superior electrical performance, making them ideal for connecting inverters and motors in servo-assisted systems.



EFFECTIVE REDUCTION:

25% less than the best "Low Capacitance" cables **60% less** than standard market cables

- shared and approved project.
- improved efficiency lower electrical losses.
- greater cabling distances between inverter and motor.
- o more stable and clean control signals.
- reduction of parasitic currents and EMC disturbances.

| Technological Benefit | User Advantages |
|-------------------------------|---|
| Reduced parasitic capacitance | Less loss, greater efficiency |
| A more stable signal | More precise commands, fewer errors |
| Longer Cables Allowed | Drives can be placed farther from the motor without degradation |
| Inverter Protection | Less stress on bearings and components |
| Maximum Temperature 90 °C | Safe installation even in compact control panels |
| Rated Voltage 1000 V | Greater electrical robustness |

MOTIONSERVOCORE LCX

Why Choose the MOTIONSERVOCORE LCX Family:

- ► OEM Approved.
- ▶ Optimized 4G + pairs layout, with >85% EMC shielding.
- ► Reduced linear capacitance: greater reliability and efficiency.
- ► Three performance levels for every type of installation (static, dynamic, robotic).
- ► Sustainable, compact, and safe solution.



600 V 1000 V

BASIC PERFORMANCE

-25°C

Servomotor cables, PVC sheath, Oil Resistant, Demi-static application - Acc.to SIEMENS® standards









LABS





















DEMI-STATIC

MIN. BENDING RADIUS

180 m/min

ACCELERATION MAX.

PULLING FORCE

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | |
|------------------------|--------|-----------|
| CYCLES | MIL | 0,2 |
| MIN. BENDING RADIUS | x O.D. | 12 |
| MAXIMUM SPEED | m/min | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 |
| PULLING FORCE | N/mm² | ≤50 |
| TORSION | °/m | - |
| MAX. HORIZONTAL TRAVEL | т | - |
| TEMPERATURE | °C | -25 / +90 |

ELECTRICAL PROPERTIES





 \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$ Temperature



Operating Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS





FLAME RETARDANT







EMC PROTECTED

TEMPOR. OUTDOOR

| Optimized Low-Capacitance Geometry | Stable and reliable performance even over long cable runs |
|--|--|
| High-Density Copper Braid Shielding | Maximum immunity to EMC interference for clean signal transmission |
| Technical PVC Jacket, Flexible and Oil-Resistant | Long service life in industrial environments subject to mechanical stress or chemical agents |
| Compact Construction and Low Weight | Ease of routing in control cabinets or narrow cable passages |
| CE / UL / CSA Certifications | Global compatibility and reduced qualification time in international projects |
| Reinforced Electrical Insulation up to 1000 V | High operational safety, even under demanding conditions |
| Self-Extinguishing and Controlled Fire Behavior | Reliable protection in case of short circuits or overheating |
| Water-Resistant and Suitable for Temporary Outdoor Use | Safe operation even in humid environments or areas subject to splashing |

${\bf Scan\,the\,QRcode\,for\,a\,more\,detailed\,digital\,version\,on\,our\,website}$

| | MotionCables code | EPlan Code | OEM code | Formation | Ø | Cu | DATA SHEET |
|----|-------------------|---------------|---------------|-----------|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| | SFS15G04UR-A | MC. 117041521 | 6FX5008-1BB11 | (4 G 1.5) | 8.9 | 94 | |
| | SFS13G04UR-A | MC. 117041321 | 6FX5008-1BB21 | (4 G 2.5) | 10.6 | 142 | |
| 00 | SFS11G04UR-A | MC. 117041121 | 6FX5008-1BB31 | (4 G 4) | 11.7 | 200 | 面级级级面 |
| | SFS09G04UR-A | MC. 117040921 | 6FX5008-1BB41 | (4 G 6) | 14.4 | 310 | |
| | SFS07G04UR-A | MC. 117040721 | 6FX5008-1BB51 | (4 G 10) | 18.6 | 486 | |
| | SFS05G04UR-A | MC. 117040521 | 6FX5008-1BB61 | (4 G 16) | 22.8 | 770 | 回旋线接接 |
| | SFS03G04UR-A | MC. 117040321 | 6FX5008-1BB25 | (4 G 25) | 26.3 | 1167 | |
| | SFS02G04UR-A | MC. 117040221 | 6FX5008-1BB35 | (4 G 35) | 30.0 | 1540 | |
| | SFSA1G04UR-A | MC. 11704A121 | 6FX5008-1BB50 | (4 G 50) | 35.0 | 2247 | |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

MOTIONSERVO POWER

DP

PVC

600 V 1000 V -30 °C

Servomotor cables, PVC TM5 sheath, Oil Resistant, Dynamic Application









LABS

















300 m / min



20 m / s² ACCELERATION MAX



≤ **50** N / mm² PULLING FORCE



±30°/m



MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | | | MOIOIOIOIOIO DIO |
|------------------------|--------|-----------|----------|------------------|
| CYCLES | MIL | 0,2 | 5 | 1 |
| MIN. BENDING RADIUS | x O.D. | 12 | 7,5 | 10 |
| MAXIMUM SPEED | m/min | 180 | 300 | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 20 | 5 |
| PULLING FORCE | N/mm² | ≤ 50 | ≤ 20 | ≤ 20 |
| TORSION | °/m | - | ± 30 | ± 30 |
| MAX. HORIZONTAL TRAVEL | m | - | 15 | 30 |
| TEMPERATURE | °C | -30 / +90 | -5 / +90 | -5 / +90 |

ELECTRICAL PROPERTIES



Test Voltage 4,0 kV x 5 min acc.to EN 50395 Cl. 10.3



Insulation Resistance \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$ Temperature



Operating Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS



OIL RESISTANT



FLAME RETARDANT





EMC PROTECTED





TEMPOR. OUTDOOR MECHANICAL CRUSH



| Low-Capacitance Structure | Stable and precise performance even over long distances between inverter and motor |
|--|--|
| Flexible Construction for Continuous Motion | High mechanical durability in cable carriers with repeated cycles |
| High-Coverage Copper Braid Shielding | Reliable EMC protection against interference and signal noise |
| Low-Adhesion Technical PVC Outer Jacket | Smooth sliding and reduced friction inside the cable carrier |
| Resistant to Oils and Industrial Fluids | Ideal for production environments with lubricants or coolants |
| Self-Extinguishing according to IEC 60332-1-2 | High safety in case of fire or over-temperature |
| Suitable for Damp and Wet Environments | Ensures service continuity under demanding operating conditions |
| Also Usable for Temporary Outdoor Applications | Versatility of use with adequate UV protection |

| | MotionCables code | EPlan Code | OEM code | Formation | | Cu | DATA SHEET |
|---|-------------------|---------------|----------|-----------|------|-------|---------------|
| | | | | mm² | mm | kg/km | |
| | SDS15G04UR-A | MC. 217041521 | | (4 G 1.5) | 8.9 | 94 | |
| | SDS13G04UR-A | MC. 217041321 | | (4 G 2.5) | 10.6 | 142 | |
| | SDS11GO4UR-A | MC. 217041121 | | (4 G 4) | 11.7 | 200 | 同级系数 图 |
| | SDS09G04UR-A | MC. 217040921 | | (4 G 6) | 14.4 | 310 | (E. 1830) |
| | SDS07G04UR-A | MC. 217040721 | | (4 G 10) | 17.7 | 486 | |
| | SDS05G04UR-A | MC. 217040521 | | (4 G 16) | 22.4 | 770 | 回過機能影響 |
| 9 | SDS03G04UR-A | MC. 217040321 | | (4 G 25) | 26.3 | 1167 | |
| | SDS02G04UR-A | MC. 217040221 | | (4 G 35) | 30.0 | 1540 | |
| | SDSA1G04UR-A | MC. 21704A121 | | (4 G 50) | 35.5 | 2247 | |





All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).



PUR

600 V

-50 °C

Servomotor cables, PUR sheath, Oil Resistant, High Dynamic Application, Halogen Free - According to SIEMENS® standards







AWM I/II A/B C €



LABS















MIN. BENDING RADIUS









≤ **50** N / mm²



±30°/m TORSION



MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | | | | MOIOIOIOIOIOIO | | |
|------------------------|--------|---------|-----------|-----------|----------------|--|--|
| CYCLES | MIL | 0,2 | 1 | 5 | 10 | | |
| MIN. BENDING RADIUS | x O.D. | 12 | 6,5 | 7,5 | 10 | | |
| MAXIMUM SPEED | m/min | 180 | 600 | 300 | 240 | | |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 50 | 30 | 15 | | |
| PULLING FORCE | N/mm² | ≤ 50 | ≤ 20 | ≤ 20 | ≤20 | | |
| TORSION | °/m | - | ± 30 | ± 30 | ± 30 | | |
| MAX. HORIZONTAL TRAVEL | m | - | 3 | 15 | 50 | | |
| TEMPERATURE | °C | -50/+90 | -40 / +90 | -40 / +90 | -40 / +90 | | |

ELECTRICAL PROPERTIES



4,0 kV x 5 min acc.to EN 50395 Cl. 10.3



 \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



Max. Short Circuit **Temperature**

160 °C (≤ 1 s)



Operating Voltage

MICROBE RESISTANT OZONE RESISTANT

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS

FLAME RETARDANT COLD RESISTANT ABRASION RESISTANT EMC PROTECTED WATER RESISTANT



























| Low-Capacitance Structure | Allows for long connections and signal stability even at high frequencies |
|--|---|
| High-Performance PUR Jacket | Excellent mechanical, chemical, and abrasion resistance |
| High-Dynamic Construction | Engineered for cable carriers with long travel distances and high accelerations |
| Full-Coverage Tinned Copper Shielding | Maximum EMC protection for high-precision servo systems |
| High Resistance to Oils, Coolants, and Chemical Agents | Suitable for use in harsh industrial environments and wet areas |
| Wide Operating Temperature Range | Reliability even in extreme climatic conditions, indoors or outdoors |
| Compatibility with Major Servo Systems | Universal solution for multi-brand applications |
| Robust and Flexible Construction | Long service life and reduced machine downtime |

| | MotionCables code | EPlan Code | OEM code | Formation | | Cu | DATA SHEET |
|--|-------------------|---------------|---------------|-----------|------|-------|---|
| | | | | mm² | mm | kg/km | |
| | SDS15G04UP-A | MC. 317041531 | 6FX8008-1BB11 | (4 G 1.5) | 9.0 | 94 | |
| | SDS13G04UP-A | MC. 317041331 | 6FX8008-1BB21 | (4 G 2.5) | 10.7 | 142 | |
| | SDS11G04UP-A | MC. 317041131 | 6FX8008-1BB31 | (4 G 4) | 11.9 | 200 | |
| | SDS09G04UP-A | MC. 317040931 | 6FX8008-1BB41 | (4 G 6) | 14.4 | 310 | 同心4999 度间 |
| | SDS07G04UP-A | MC. 317040731 | 6FX8008-1BB51 | (4 G 10) | 17.7 | 486 | 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十 |
| | SDS05G04UP-A | MC. 317040531 | 6FX8008-1BB61 | (4 G 16) | 21.6 | 770 | 200 A |
| | SDS03G04UP-A | MC. 317040331 | 6FX8008-1BB25 | (4 G 25) | 25.5 | 1167 | |
| | SDS02G04UP-A | MC. 317040231 | 6FX8008-1BB35 | (4 G 35) | 30.0 | 1540 | |
| | SDSA1G04UP-A | MC. 31704A131 | 6FX8008-1BB50 | (4 G 50) | 35.5 | 2247 | |
| | SDSA2G04UP-A | MC. 31704A231 | 6FX8008-1BB70 | (4 G 75) | 41.6 | 2800 | |
| | SDSA3G04UP-A | MC. 31704A331 | 6FX8008-1BB95 | (4 G 95) | 46.8 | 3600 | |





All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

600 V 1000 V

BASIC PERFORMANCE

-25°C

Servomotor cables, PVC sheath, Oil Resistant, Demi-static application

















200.000 DEMI-STATIC

12 x O.D. MIN. BENDING RADIUS

180 m/min **2.0** m / sec² ACCELERATION MAX.

PULLING FORCE

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | |
|------------------------|--------|-----------|
| CYCLES | MIL | 0,2 |
| MIN. BENDING RADIUS | x O.D. | 12 |
| MAXIMUM SPEED | m/min | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 |
| PULLING FORCE | N/mm² | ≤50 |
| TORSION | °/m | - |
| MAX. HORIZONTAL TRAVEL | m | - |
| TEMPERATURE | °C | -25 / +90 |

ELECTRICAL PROPERTIES





 \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$ Temperature



Operating Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS





FLAME RETARDANT







EMC PROTECTED

TEMPOR. OUTDOOR

| Optimized Low-Capacitance Geometry | Stable and reliable performance even over long cable runs |
|--|--|
| High-Density Copper Braid Shielding | Maximum immunity to EMC interference for clean signal transmission |
| Technical PVC Jacket, Flexible and Oil-Resistant | Long service life in industrial environments subject to mechanical stress or chemical agents |
| Compact Construction and Low Weight | Ease of routing in control cabinets or narrow cable passages |
| CE / UL / CSA Certifications | Global compatibility and reduced qualification time in international projects |
| Reinforced Electrical Insulation up to 1000 V | High operational safety, even under demanding conditions |
| Self-Extinguishing and Controlled Fire Behavior | Reliable protection in case of short circuits or overheating |
| Water-Resistant and Suitable for Temporary Outdoor Use | Safe operation even in humid environments or areas subject to splashing |

| | MotionCables code | EPlan Code | OEM code | Formation | Ø | Cu | DATA SHEET |
|--------------------------------|-------------------|--------------|---------------|--------------------------------|------|---------|-----------------|
| | | | | mm² | mm | kg / km | |
| | SFS15G06UR-A | MC.118061521 | 6FX5008-1BA11 | [4 G 1.5 + (2 x 1.5)] | 10.5 | 155 | |
| | SFS13G06UR-A | MC.118061321 | 6FX5008-1BA21 | [4 G 2.5 + (2 x 1.5)] | 12.0 | 200 | |
| @ | SFS11G06UR-A | MC.118061121 | 6FX5008-1BA31 | [4 G 4 + (2 x 1.5)] | 13.5 | 272 | (a) (24 % % (a) |
| Accto Siemens | SFS09G06UR-A | MC.118060921 | 6FX5008-1BA41 | [4 G 6 + (2 x 1.5)] | 15.6 | 377 | |
| Sien Sien | SFS07G06UR-A | MC.118060721 | 6FX5008-1BA51 | [4 G 10 + (2 x 1.5)] | 21.0 | 552 | |
| | SFS05G06UR-A | MC.118060521 | 6FX5008-1BA61 | [4 G 16 + (2 x 1.5)] | 24.1 | 880 | 回对继续影 |
| AC | SFS03G06UR-A | MC.118060321 | 6FX5008-1BA25 | [4 G 25 + (2 x 1.5)] | 26.6 | 1210 | |
| | SFS02G06UR-A | MC.118060221 | 6FX5008-1BA35 | [4 G 35 + (2 x 1.5)] | 30.9 | 1570 | |
| | SFSA1G06UR-A | MC.11806A121 | 6FX5008-1BA50 | [4 G 50 + (2 x 1.5)] | 34.0 | 2299 | |
| | SFSI19G06UR-A | MC.119061921 | | [4 G 0.75 + (2 x 0.50)] | 9.2 | 73 | |
| @ <u>.</u> | SFSI17G08UR-A | MC.119061721 | | [4 G 1.0 + 2 x (2 x 0.75)] | 11.6 | 170 | |
| ımat | SFSI15G08UR-A | MC.119061521 | | [4 G 1.5 + 2 x (2 x 0.75)] | 12.2 | 189 | |
| Acc.to Bosch Rexroth Indramat® | SFSI13G08UR-A | MC.119061321 | | [4 G 2.5 + 2 x (2 x 1.0)] | 14.6 | 223 | |
| F (80) | SFSI11G08UR-A | MC.119061121 | | [4 G 4 + (2 x 1) + (2 x 1.5)] | 16.3 | 309 | |
| | SFSI09G08UR-A | MC.119060921 | | [4 G 6 + (2 x 1) + (2 x 1.5)] | 18.1 | 395 | |
| | SFSI07G08UR-A | MC.119060721 | | [4 G 10 + (2 x 1) + (2 x 1.5)] | 21.8 | 575 | |
| | SFSI05G08UR-A | MC.119060521 | | [4 G 16 + 2 x (2 x 1.5)] | 25.5 | 850 | |
| CC. FC | SFSI03G08UR-A | MC.119060321 | | [4 G 25 + 2 x (2 x 1.5)] | 28.8 | 1250 | |
| ⋖ | SFSI02G08UR-A | MC.119060221 | | [4 G 35 + 2 x (2 x 1.5)] | 30.9 | 1588 | |
| | SFSIA1G08UR-A | MC.11906A121 | | [4 G 50 + 2 x (2 x 2.5)] | 36.3 | 2351 | |
| | SFSL19G06UR-A | MC.120061921 | | [4G0.75+(2x0.5)] | 10.0 | 91 | |
| | SFSL17G06UR-A | MC.120061721 | | [4G1.0+(2x0.5)] | 10.8 | 91 | |
| e Ze | SFSL15G06UR-A | MC.120061521 | | [4G1.5+(2x0.5)] | 11.5 | 106 | |
| Acc.to Lenze® | SFSL13G06UR-A | MC.120061321 | | [4G2.5+(2x0.5)] | 13.2 | 153 | |
| | SFSL11G06UR-A | MC.120061121 | | [4G4.0+(2x1.0)] | 14.6 | 235 | 2300 St 365 |
| AC | SFSL09G06UR-A | MC.120060921 | | [4G6.0+(2x1.0)] | 16.8 | 316 | 回线编辑线数 |
| | SFSL07G06UR-A | MC.120060721 | | [4G10+(2x1.0)] | 20.1 | 513 | |
| | SFSL05G06UR-A | MC.120060521 | | [4G16+(2x1.0)] | 23.8 | 710 | |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

DYNAMIC PERFORMANCE DP

600 V 1000 V -30 °C

Servomotor cables, PVC TM5 sheath, Oil Resistant, Dynamic Application

















7,5 x O.D. MIN. BENDING RADIUS

300 m / min MAX. SPEED

20 m / s² ACCELERATION MAX.

≤ **50** N / mm² PULLING FORCE

±30°/m TORSION

MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | | | |
|-----------------------|--------|-----------|----------|----------|
| CYCLES | MIL | 0,2 | 5 | 1 |
| MIN. BENDING RADIUS | x O.D. | 12 | 7,5 | 10 |
| MAXIMUM. SPEED | m/min | 180 | 300 | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 20 | 5 |
| PULLING FORCE | N/mm² | ≤ 50 | ≤ 20 | ≤ 20 |
| TORSION | °/m | - | ± 30 | ± 30 |
| MAX HORIZONTAL TRAVEL | m | - | 15 | 30 |
| TEMPERATURE | °C | -30 / +90 | -5 / +90 | -5 / +90 |

ELECTRICAL PROPERTIES







 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$



RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS













OIL RESISTANT

FLAME RETARDANT

WATER RESISTANT

EMC PROTECTED

TEMPOR. OUTDOOR MECHANICAL CRUSH

| Low-Capacitance Structure | Stable and precise performance even over long distances between inverter and motor |
|--|--|
| Flexible Construction for Continuous Motion | High mechanical durability in cable carriers with repeated cycles |
| High-Coverage Copper Braid Shielding | Reliable EMC protection against interference and signal noise |
| Low-Adhesion Technical PVC Outer Jacket | Smooth sliding and reduced friction inside the cable carrier |
| Resistant to Oils and Industrial Fluids | Ideal for production environments with lubricants or coolants |
| Self-Extinguishing according to IEC 60332-1-2 | High safety in case of fire or over-temperature |
| Suitable for Damp and Wet Environments | Ensures service continuity under demanding operating conditions |
| Also Usable for Temporary Outdoor Applications | Versatility of use with adequate UV protection |

| | MotionCables code | EPlan Code | OEM code | Formation | Ø | Cu | DATA SHEET |
|--|-------------------|--------------|----------|------------------------------------|------|-------|---|
| | | | | mm² | mm | kg/km | |
| | SDS15G06UR-A | MC.218061521 | | [4 G 1.5 + (2 x 1.5)] | 11.6 | 155 | |
| | SDS13G06UR-A MC | MC.218061321 | | [4 G 2.5 + (2 x 1.5)] | 13.4 | 200 | |
| So Control of the Con | SDS11G06UR-A | MC.218061121 | | [4 G 4 + (2 x 1.5)] | 14.2 | 272 | 间数9%数间 |
| Accto Siemens | SDS09G06UR-A | MC.218060921 | | [4 G 6 + (2 x 1.5)] | 16.5 | 377 | 连发 (1000年) 1200年(1000年) |
| | SDS07G06UR-A | MC.218060721 | | [4 G 10 + (2 x 1.5)] | 20.0 | 552 | |
| | SDS05G06UR-A | MC.218060521 | | [4 G 16 + (2 x 1.5)] | 23.5 | 880 | 回频系列表 |
| | SDS03G06UR-A | MC.218060321 | | [4 G 25 + (2 x 1.5)] | 26.6 | 1210 | |
| | SDS02G06UR-A | MC.218060221 | | [4 G 35 + (2 x 1.5)] | 30.5 | 1570 | |
| | SDSA1G06UR-A | MC.218060221 | | [4 G 50 + (2 x 1.5)] | 34.5 | 2299 | |
| | SDSI19G06UR-A | MC.219061931 | | [4 G 0.75 + (2 x 0.50)] | 9.2 | 73 | |
| · . | SDSI17G08UR-A | MC.219061731 | | [4 G 1.0 + 2 x (2 x 0.75)] | 11.6 | 170 | |
| Arcrico Bostil Maria de la companya | SDSI15G08UR-A | MC.219061531 | | [4 G 1.5 + 2 x (2 x 0.75)] | 12.2 | 189 | |
| | SDSI13G08UR-A | MC.219061331 | | [4 G 2.5 + 2 x (2 x 1.0)] 14.6 223 | 223 | | |
| (80) | SDSI11G08UR-A | MC.219061131 | | [4 G 4 + (2 x 1) + (2 x 1.5)] | 16.3 | 309 | 国家经验公司 经转换数据数 |
| | SDSI09G08UR-A | MC.219060931 | | [4 G 6 + (2 x 1) + (2 x 1.5)] | 18.1 | 395 | |
| 08 | SDSI07G08UR-A | MC.219060731 | | [4 G 10 + (2 x 1) + (2 x 1.5)] | 21.8 | 575 | |
| | SDSI05G08UR-A | MC.219060531 | | [4 G 16 + 2 x (2 x 1.5)] | 25.5 | 850 | |
| | SDSI03G08UR-A | MC.219060331 | | [4 G 25 + 2 x (2 x 1.5)] | 28.8 | 1250 | |
| 5 | SDSI02G08UR-A | MC.219060231 | | [4 G 35 + 2 x (2 x 1.5)] | 30.9 | 1588 | |
| | SDSIA1G08UR-A | MC.21906A131 | | [4 G 50 + 2 x (2 x 2.5)] | 36.3 | 2351 | |
| | SDSL19G06UR-A | MC.220061721 | | [4G0.75+(2x0.5)] | 9.30 | 91 | |
| | SDSL17G06UR-A | MC.220061731 | | [4G1.0+(2x0.5)] | 10.0 | 91 | |
| | SDSL15G06UR-A | MC.220061531 | | [4G1.5+(2x0.5)] | 11.0 | 106 | 回线系统国 |
| | SDSL13G06UR-A | MC.220061331 | | [4G2.5+(2x0.5)] | 12.3 | 153 | |
| | SDSL11G06UR-A | MC.220061131 | | [4G4.0+(2x1.0)] | 14.6 | 235 | |
| | SDSL09G06UR-A | MC.220060931 | | [4G6.0+(2x1.0)] | 16.7 | 316 | |
| | SDSL07G06UR-A | MC.220060731 | | [4G10+(2x1.0)] | 19.4 | 513 | |
| | SDSL05G06UR-A | MC.220060531 | | [4G16+(2x1.0)] | 23.8 | 710 | |
| | SDSS15G07UR-A | MC.221061731 | | [4G1.5+(3x1.0)] | 11.8 | 150 | |
| Acc. to SEW® | SDSS13G07UR-A | MC.221061531 | | [4G2.5+(3x1.0)] | 13.4 | 213 | 国成35%第国 25%美国 |
| | SDSS11G07UR-A | MC.221061231 | | [4G4+(3x1.0)] | 15.0 | 280 | 经现代的 |
| | SDSS09G07UR-A | MC.221061131 | | [4G6+(3x1.5)] | 17.0 | 390 | |
| | SDSS07G07UR-A | MC.221060931 | | [4G10+(3x1.5)] | 20.0 | 620 | the transfer of the second of |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

НР

PUR

600 V 1000 V

HIGH DYNAMIC PERFORMANCE

-50 °C

Servomotor cables, PUR sheath, Oil Resistant, High Dynamic Application, Halogen Free

















10 million CYCLES

MIN. BENDING RADIUS

600 m / min

60 m / s² ACCELERATION MAX

PULLING FORC

TORSION

MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

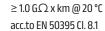
| | m.u. | | | | |
|-----------------------|--------|---------|-----------|-----------|-----------|
| CYCLES | MIL | 0,2 | 1 | 5 | 10 |
| MIN. BENDING RADIUS | x O.D. | 12 | 6,5 | 7,5 | 10 |
| MAXIMUM. SPEED | m/min | 180 | 600 | 300 | 240 |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 50 | 30 | 15 |
| PULLING FORCE | N/mm² | ≤ 50 | ≤ 20 | ≤ 20 | ≤ 20 |
| TORSION | °/m | - | ± 30 | ± 30 | ± 30 |
| MAX HORIZONTAL TRAVEL | m | - | 3 | 15 | 50 |
| TEMPERATURE | °C | -50/+90 | -40 / +90 | -40 / +90 | -40 / +90 |

ELECTRICAL PROPERTIES



4,0 kV x 5 min acc.to EN 50395 Cl. 10.3







Max. Short Circuit Temperature

160 °C (≤ 1 s)



Operating Voltage

MICROBE RESISTANT OZONE RESISTANT

1000 V (UL/CSA) U_n/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS









FLAME RETARDANT COLD RESISTANT ABRASION RESISTANT EMC PROTECTED WATER RESISTANT

















HALOGEN FREE

| Low-Capacitance Structure | Allows for long connections and signal stability even at high frequencies |
|--|---|
| High-Performance PUR Jacket | Excellent mechanical, chemical, and abrasion resistance |
| High-Dynamic Construction | Engineered for cable carriers with long travel distances and high accelerations |
| Full-Coverage Tinned Copper Shielding | Maximum EMC protection for high-precision servo systems |
| High Resistance to Oils, Coolants, and Chemical Agents | Suitable for use in harsh industrial environments and wet areas |
| Wide Operating Temperature Range | Reliability even in extreme climatic conditions, indoors or outdoors |
| Compatibility with Major Servo Systems | Universal solution for multi-brand applications |
| Robust and Flexible Construction | Long service life and reduced machine downtime |

| | MotionCables code | EPlan Code | OEM code | Formation | Ø | Cu | DATA SHEET |
|--|---|-----------------------------|---------------|--------------------------------|------|---------|---|
| | | | | mm² | mm | kg / km | |
| | SDS15G06UP-A | SDS15G06UP-A MC.318061531 6 | 6FX8008-1BA11 | [4 G 1.5 + (2 x 1.5)] | 11.6 | 155 | |
| | SDS13G06UP-A | MC.318061331 | 6FX8008-1BA21 | [4 G 2.5 + (2 x 1.5)] | 13.4 | 200 | |
| © S | SDS11G06UP-A | MC.318061131 | 6FX8008-1BA31 | [4 G 4 + (2 x 1.5)] | 14.4 | 272 | |
| Acc.to Siemens® | SDS09G06UP-A | MC.318060931 | 6FX8008-1BA41 | [4 G 6 + (2 x 1.5)] | 16.8 | 377 | |
| Sien | SDS07G06UP-A | MC.318060731 | 6FX8008-1BA51 | [4 G 10 + (2 x 1.5)] | 20.0 | 552 | |
| c: t | SDS05G06UP-A | MC.318060531 | 6FX8008-1BA61 | [4 G 16 + (2 x 1.5)] | 23.7 | 880 | |
| ⋖ | SDS03G06UP-A | MC.318060331 | 6FX8008-1BA25 | [4 G 25 + (2 x 1.5)] | 26.6 | 1210 | |
| | SDS02G06UP-A | MC.318060231 | 6FX8008-1BA35 | [4 G 35 + (2 x 1.5)] | 30.5 | 1570 | |
| | SDSA1G06UP-A | MC.31806A131 | 6FX8008-1BA50 | [4 G 50 + (2 x 1.5)] | 34.5 | 2299 | |
| | SDSI19G06UP-A | MC.319061931 | | [4 G 0.75 + (2 x 0.50)] | 8.5 | 73 | |
| © , | SDSI17G08UP-A MC.319061731 REL0105 [4 G 1.0 + 2 x (2 x 0.75)] SDSI15G08UP-A MC.319061531 REL0106 [4 G 1.5 + 2 x (2 x 0.75)] | [4 G 1.0 + 2 x (2 x 0.75)] | 11.5 | 170 | | | |
| Acc.to Bosch Rexroth Indramat® | | 11.7 | 189 | | | | |
| ndra | SDSI13G08UP-A | MC.319061331 | REL0107 | [4 G 2.5 + 2 x (2 x 1.0)] | 14.7 | 223 | |
| # 80 | SDSI11G08UP-A | MC.319061131 | REL0108 | [4 G 4 + (2 x 1) + (2 x 1.5)] | 16.3 | 309 | 国教会教包 2015年第2 |
| lexic lexic | SDSI09G08UP-A | MC.319060931 | REL0109 | [4 G 6 + (2 x 1) + (2 x 1.5)] | 18.1 | 395 | |
| | SDSI07G08UP-A | MC.319060731 | RELO110 | [4 G 10 + (2 x 1) + (2 x 1.5)] | 21.8 | 575 | |
| 808 | SDSI05G08UP-A | DBUP-A | 850 | | | | |
| CC:tC | SDSI03G08UP-A | MC.319060331 | REL0112 | [4 G 25 + 2 x (2 x 1.5)] | 28.8 | 1250 | |
| V | SDSI02G08UP-A | MC.319060231 | REL0113 | [4 G 35 + 2 x (2 x 1.5)] | 30.9 | 1588 | |
| | SDSIA1G08UP-A | MC.31906A131 | INK0668 | [4 G 50 + 2 x (2 x 2.5)] | 36.3 | 2351 | |
| | SDSL19G06UP-A | MC.320061721 | | [4G0.75+(2x0.5)] | 9.8 | 91 | |
| | SDSL17G06UP-A | MC.320061731 | | [4G1.0+(2x0.5)] | 10.5 | 91 | |
| an Common and the com | SDSL15G06UP-A | MC.320061531 | | [4G1.5+(2x0.5)] | 11.5 | 106 | 回药药烧器回 |
| Tenz Tenz | SDSL13G06UP-A | MC.320061331 | | [4G2.5+(2x0.5)] | 13.2 | 153 | |
| Acc. to Lenze | SDSL11G06UP-A | MC.320061131 | | [4G4.0+(2x1.0)] | 14.6 | 235 | |
| AG | SDSL09G06UP-A | MC.320060931 | | [4G6.0+(2x1.0)] | 17.5 | 316 | 回经验到最 |
| | SDSL07G06UP-A | MC.320060731 | | [4G10+(2x1.0)] | 20.1 | 513 | |
| | SDSL05G06UP-A | MC.320060531 | | [4G16+(2x1.0)] | 23.8 | 710 | |
| | SDSS15G07UP-A | MC.321061731 | | [4G1.5+(3x1.0)] | 11.9 | 150 | |
| | SDSS13G07UP-A | MC.321061531 | | [4G2.5+(3x1.0)] | 13.4 | 213 | 回 \$55.55 (\$ 回 55.55 (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Acc.to SEW® | SDSS11G07UP-A | MC.321061331 | | [4G4+(3x1.0)] | 15.0 | 280 | |
| Acc. 1 | SDSS09G07UP-A | MC.321061131 | | [4G6+(3x1.5)] | 16.8 | 390 | |
| | SDSS07G07UP-A | MC.321060931 | | [4G10+(3x1.5)] | 19.3 | 620 | |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

MOTIONSERVOCORE LCX

Servomotor cables, PUR sheath, Oil Resistant, High Dynamic Application, Halogen Free - Increased Low Capacitance







MIN. BENDING RADIUS





ACCELERATION MAX







TORSION

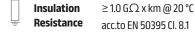
MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

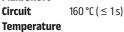
| | m.u. | | | | | | |
|------------------------|--------|---------|-----------|-----------|-----------|--|--|
| CYCLES | MIL | 0,2 | 1 | 5 | 10 | | |
| MIN. BENDING RADIUS | x O.D. | 12 | 6,5 | 7,5 | 10 | | |
| MAXIMUM SPEED | m/min | 180 | 600 | 300 | 240 | | |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 50 | 30 | 15 | | |
| PULLING FORCE | N/mm² | ≤ 50 | ≤ 20 | ≤ 20 | ≤ 20 | | |
| TORSION | °/m | - | ± 30 | ± 30 | ± 30 | | |
| MAX. HORIZONTAL TRAVEL | m | - | 3 | 15 | 50 | | |
| TEMPERATURE | °C | -50/+90 | -40 / +90 | -40 / +90 | -40 / +90 | | |

ELECTRICAL PROPERTIES

| Test Voltage | 4,0 kV x 5 min |
|-----------------|--------------------------|
| ee Voltage | acc.to EN 50395 Cl. 10.3 |









1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS









FLAME RETARDANT COLD RESISTANT ABRASION RESISTANT EMC PROTECTED WATER RESISTANT













MICROBE RESISTANT OZONE RESISTANT





| Optimized Ultra-Low Capacitance Structure (-25% compared to the best "Low Capacitance" standards) | Higher electrical efficiency and lower signal losses. |
|---|---|
| Up to 60% Reduction compared to Standard Market Cables | ${\it Stable performance over longer wiring distances between inverter and motor.}$ |
| Balanced 4G+ Shielded Pairs Layout | Clean transmission of control signals and reduction of stray currents. |
| High Coverage EMC Shielding (>85%) | Excellent immunity to electromagnetic disturbances. |
| OEM Approval | Construction quality validated by major servo system manufacturers. |
| Three Performance Levels (Static, Dynamic, High Dynamic) | Scalable solutions optimized for different movement intensities. |
| Compact Architecture with Thermal Optimization | Better energy management and greater system efficiency. |
| Low Dispersion and Precise Power Control | High signal stability and maximum operational reliability. |

MOTIONHYBRID

FOR STATIC AND DYNAMIC APPLICATIONS - SHIELDED AND UNSHIELDED VERSIONS

MOTION**HYBRID** cables represent the MOTION**CABLES** solution for modern, advanced automation requirements, integrating power, motor, and feedback lines into a single cable solution.

Careful design engineering ensures:

- Reduced space within cable carriers and automation cabinets.
- Optimized installation time.
- Maximum Electromagnetic Compatibility (EMC), thanks to total and partial shielding.
- Reliability and durability in severe industrial environments, even with flexing cycles exceeding 10.000.000.

These cables are developed to meet the specifications of major servo drive and control manufacturers, guaranteeing CE, UL, and CSA standard compliance. They are ideal for applications in:

- Automated production lines.
- Machine tools and high-precision industrial machinery.
- o Export-oriented systems, with demands for international safety and certifications.

| PERFORMANCE LEVEL | Suggested Usage Conditions | Insulation | Outer Sheath | Key Features |
|-----------------------------|--|-------------------------------------|----------------------------|--|
| BASIC PERFORMANCE | Static or Demi-Static installation | Polypropylene (PP) or Polyolefin | PVC | Flexibility, oil/fluid resistance, flame retardant |
| DYNAMIC PERFORMANCE | Dynamic installation (cable carriers) | Polypropylene (PP) or Polyolefin | PVC TM5 | Designed for repeated bending, high performance in dynamic environments |
| HIGH DYNAMIC PERFORMANCE | Severe dynamic, robotics | Polypropylene (PP) or Polyolefin | Polyurethane (PUR FRHF) | High flexibility even at low temperatures, chemical resistance, halogen-free |

ELECTRICAL & MATERIAL SPECIFICATIONS

| CHARACTERISTIC | TECHNICAL SPECIFICATION |
|--------------------------|---|
| Conductors | Bare or tinned copper, extra-fine strands according to DIN VDE 0295 cl.6 / IEC 60228 cl.6, ensuring flexibility and resistance to mechanical fatigue. |
| Conductor Insulation | Special Polypropylene or Polyolefin, optimized to reduce parasitic capacitance. |
| Conductor Identification | Colour or numerical coding according to the technical datasheet, to facilitate installation and maintenance. |
| Textile Tape | Inserted for mechanical stability and protection against mechanical stress. |
| Shield | Tinned copper braid, optical coverage approx. 85%, for total EMC protection and interference reduction. |
| Additional Shield | ALU/PET tape, enhances shielding and protection against chemical agents. |
| Outer Jacket | PVC (BP), PVC TM5 (DP), PUR FRHF (HP), resistant to oils, solvents, UV radiation, and mechanical wear. |
| Jacket Colour | Orange RAL 2003, Green RAL 6018, Black RAL 9005. |



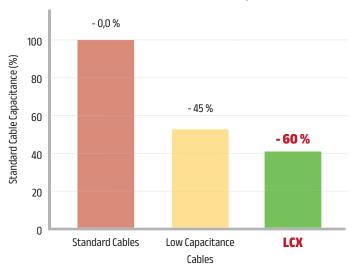


| MotionCables code | EPlan Code | OEM code | Formation | | Cu |
|-------------------|--------------|----------|-----------------------|------|-------|
| | | | mm² | mm | kg/km |
| SDS15G06UP-ALCX | MC.377061531 | | [4 G 1.5 + (2 x 1.5)] | 13.4 | 200 |
| SDS13G06UP-ALCX | MC.377061331 | | [4 G 2.5 + (2 x 1.5)] | 14.4 | 272 |
| SDS11G06UP-ALCX | MC.377061131 | | [4 G 4 + (2 x 1.5)] | 16.8 | 377 |
| SDS09G06UP-ALCX | MC.377060931 | | [4 G 6 + (2 x 1.5)] | 20.0 | 552 |
| SDS07G06UP-ALCX | MC.377060731 | | [4 G 10 + (2 x 1.5)] | 23.7 | 880 |
| SDS05G06UP-ALCX | MC.377060531 | | [4 G 16 + (2 x 1.5)] | 26.6 | 1210 |



LCX = Low Capacitance eXtended NEW OEM-APPROVED TECHNOLOGY

Thanks to the adoption of an optimized structure with ultra-low parasitic capacitance (25% lower than existing Low Capacitance standards), these cables offer superior electrical performance, making them ideal for connecting inverters and motors in servo-assisted systems.



EFFECTIVE REDUCTION:

25% less than the best "Low Capacitance" cables 60% less than standard market cables

- shared and approved project.
- improved efficiency lower electrical losses.
- greater cabling distances between inverter and motor.
- more stable and clean control signals.
- reduction of parasitic currents and EMC disturbances.

Why Choose the MOTION **SERVOCORE LCX** Family:

- ► OEM Approved.
- ▶ Optimized 4G + pairs layout, with >85% EMC shielding.
- ► Reduced linear capacitance: greater reliability and efficiency.
- ► Three performance levels for every type of installation (static, dynamic, robotic).
- ► Sustainable, compact, and safe solution.

Scan the QRcode for a more detailed digital version on our website





EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

TECHNICAL BENEFIT OF THE MOTIONHYBRID FAMILY

- Motor and Feedback Integration in a single cable.
- Space-saving and reduced wiring time.
- Superior EMC Shielding, optimal in noisy industrial environments
- Resistance to Ooils, Fluids, Chemicals, and UV.

- Applicable to static, dynamic, and highly dynamic installations.
- International compliance (CE, UL, CSA).

APPLICATION EXAMPLES

- Automated Production Lines.
- Machine Tools and CNC.
- Industry 4.0:
 Smart Factory and installations with high wiring density.
- Multi-Axis Synchronized Systems.



OPERATING TEMPERATURE: 90 °C

COLD
RESISTANCE:
-50°C

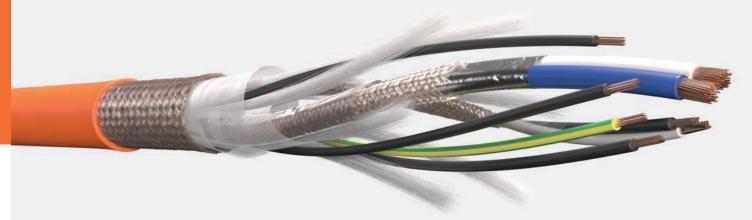
CABLES TYPES ACCORDING TO STANDARDS

| PROTOCOL | IMPEDANCE (Ω) | MAX FREQUENCY | MANUFACTURER | DETAILED DESCRIPTION |
|---------------|----------------------|------------------|-------------------------|--|
| Endat 2.2 | 120±12 | 10 MHz | Heidenhain [®] | Bidirectional digital interface for absolute and incremental encoders. Synchronous serial transmission over 4 lines (CLOCK+/-, DATA+/-). Ideal for CNC, robotics, and machine tools; supports safety functions up to SIL 3. |
| Endat 3 | 120±10 | Up to 100 MHz | Heidenhain® | Evolution of EnDat 2.2, featuring higher transmission speed, more efficient diagnostic data management, and support for integrated safety systems. Optimized for high-precision, high-speed applications. |
| Hiperface DSL | 110±10 | 10 MHz | SICK® | Digital and analog protocol for encoders, suitable for high-speed servo and robotics applications. |
| SINAMICS | 100±10 | 100 MHz | Siemens® | Digital feedback for SINAMICS drives, supports high-speed transmission and complex motor control. |
| IndraDyn-S | 110±10 | 10 MHz | Bosch-Rexroth® | Servo drive and control system for robotics and automation, featuring precise digital feedback. |
| НМС 6 | 120±10 | 8 MHz | Heidenhain® | High-precision digital encoder for motors and linear systems, ideal for CNC and robotics. |
| ILM 62 | 100±10 | 100 MHz | Schneider Electric® | Digital encoder for motor position control, suitable for industrial production lines. |
| MOVILINK DDI | 50±2 | 1000 MHz | SEW® | Digital protocol for SEW drives, enabling secure communication between servo and controller. |

HYBRID SERVO

BASIC PERFORMANCE

Hybrid OCT cables, PVC sheath, Oil Resistant, Demi-Static application









LABS









200.000









 \leq 50 N $/ \text{ mm}^2$



DEMI-STATIC MIN. BENDING RADIUS

ACCELERATION MAX.

PULLING FORCE

MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | |
|-----------------------|--------|--------|
| CYCLES | MIL | 0,2 |
| MIN. BENDING RADIUS | x O.D. | 12 |
| MAXIMUM. SPEED | m/min | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 |
| PULLING FORCE | N/mm² | ≤50 |
| TORSION | °/m | - |
| MAX HORIZONTAL TRAVEL | т | - |
| TEMPERATURE | °C | +5/+90 |

ELECTRICAL PROPERTIES



4,0 kV x 5 min acc.to EN 50395 Cl. 10.3



Insulation Resistance \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$ Temperature



Operating

Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS











OIL RESISTANT FLAME RETARDANT

WATER RESISTANT

EMC PROTECTED

TEMPOR. OUTDOOR

| One Cable Technology (Power + Signal) | A single cable for power, brake, and feedback: 50% reduction in cabling |
|--|---|
| Low-Capacitance Architecture | Higher electrical efficiency and stability of control signals |
| Full-Coverage Copper Shielding | Reliable protection against noise and EMC interference |
| Balanced Layout and Dedicated Communication Pair | Clean digital transmission, without loss of synchronization |
| Flexible PVC Outer Jacket | Ease of installation and good resistance in general industrial environments |
| Reduction in Overall Weight and Size | Optimized space in control cabinets and cable carriers |
| Compatibility with Major Digital Protocols | Direct interface with standard servo motors and OEM systems |
| Economical and Functional Solution | Perfect for lines with limited motion or semi-dynamic applications |

| Protocol: HYPE | RFACE DSL® | | | Manufacturer: SICK® | | | |
|-----------------------|-------------------|--------------|--------------------|--|------|-------|------------|
| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
| | | | | mm² | mm | kg/km | |
| | | | ≤ 50 |) m connection | | | |
| | HFSS21G08UR-A | MC.122082131 | | [4 G 0.50 + (2 x 0.35) + (2 x 26 AWG)] | 9.8 | 86 | |
| | HFSS17G08UR-A | MC.122081731 | | [4 G 1.0 + (2 x 0.75) + (2 x 26 AWG)] | 11.5 | 113 | |
| | HFSS15G08UR-A | MC.122081531 | | [4 G 1.5 + (2 x 0.75) + (2 x 26 AWG)] | 12.5 | 150 | |
| | HFSS13G08UR-A | MC.122081331 | | [4 G 2.5 + (2 x 1.0) + (2 x 26 AWG)] | 13.8 | 195 | |
| | | | ≤ 100 m connection | | | | |
| | HFSI17G08UR-A | MC.122081731 | | [4 G 1.0 + (2 x 0.75) + (2 x 22 AWG)] | 12.5 | 125 | 回路经验的 |
| | HFSI15G08UR-A | MC.122081531 | | [4 G 1.5 + (2 x 1.0) + (2 x 22 AWG)] | 13.2 | 160 | |
| | HFSI13G08UR-A | MC.122081331 | | [4 G 2.5 + (2 x 1.0) + (2 x 22 AWG)] | 14.5 | 200 | |
| | HFSI11G08UR-A | MC.122081131 | | [4 G 4 + (2 x 1.5) + (2 x 22 AWG)] | 16.3 | 285 | |

| Protocol: S210 ® | | | | Manufacturer: SIEMENS ® | | | |
|-------------------------|-------------------|--------------|----------|--------------------------------|------|-------|------------|
| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
| | | | | mm² | mm | kg/km | |
| | HFSSI22Z10UR-A | MC.156102221 | | [4G0.38 + (2x0.38) + (4x0.20)] | 9.5 | 79 | |
| | HFSSI19Z10UR-A | MC.156101921 | | [4G0.75 + (2x0.50) + (4x0.20)] | 10.4 | 105 | |
| (C) | HFSSI15Z10UR-A | MC.156101521 | | [4G1.50 + (2x1.50) + (4x0.20)] | 12.3 | 162 | |
| | HFSSI13Z10UR-A | MC.156101321 | | [4G2.50 + (2x1.50) + (4x0.20)] | 13.3 | 214 | |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

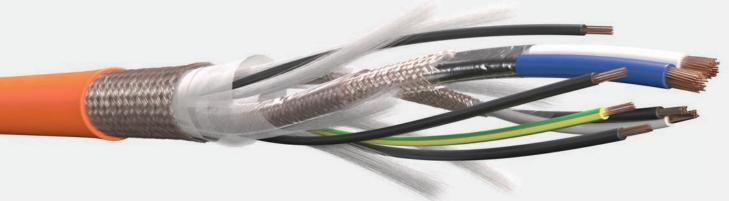
All the codes are available in the SPAC CAVI system (use MotionCables item code).

HYBRID SERVO

PVC

600 V 1000 V -30 °C

Hybrid OCT Servomotor cables, PVC TM5 sheath, Oil Resistant, Dynamic Application









LABS















300 m / min



20 m / s² ACCELERATION MAX



≤ **50** N / mm² PULLING FORCE



±30°/m TORSION



30 m MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | | | |
|-----------------------|--------|-----------|--------|----------|
| CYCLES | MIL | 0,2 | 5 | 1 |
| MIN. BENDING RADIUS | x O.D. | 12 | 7,5 | 10 |
| MAXIMUM. SPEED | m/min | 180 | 300 | 180 |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 20 | 5 |
| PULLING FORCE | N/mm² | ≤50 | ≤ 20 | ≤ 20 |
| TORSION | °/m | - | ± 30 | ± 30 |
| MAX HORIZONTAL TRAVEL | m | - | 15 | 30 |
| TEMPERATURE | °C | -30 / +90 | -5/+90 | -5 / +90 |

ELECTRICAL PROPERTIES



Test Voltage 4,0 kV x 5 min acc.to EN 50395 Cl. 10.3



Insulation Resistance \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



 $\textbf{Max. Short Circuit} \quad _{160\ ^{\circ}\text{C (} \leq 1\text{s)}}$ Temperature



Operating Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS



OIL RESISTANT



FLAME RETARDANT





EMC PROTECTED





TEMPOR. OUTDOOR MECHANICAL CRUSH



| High-Performance One Cable Technology | Simultaneous transmission of power, brake, and DSL signals in a single conductor |
|--|--|
| Flexible Architecture Optimized for Continuous Motion | High resistance to bending cycles and mechanical stress |
| Individually Twisted and Shielded Data Element | Stable and interference-free digital feedback |
| Multiple EMC Shielding | Total protection against high-frequency noise and harmonics |
| Low-Adhesion Technical PVC Outer Jacket | Smooth sliding in the cable carrier, reducing friction |
| Resistance to Oils and Coolants | Safe operation in lubricated or humid industrial environments |
| 40-50% Reduced Cabling Compared to Traditional Systems | Lower installation times and reduced maintenance complexity |
| Water-Resistant and Suitable for Temporary Outdoor Use | Safe operation even in humid environments or areas subject to splashing |

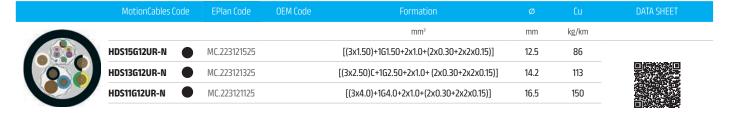
Protocol: HYPERFACE DSL®

Manufacturer: SICK®

| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
|--|--------------------|--------------|----------|--|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| | | | ≤ 50 |) m connection | | | |
| | HDSS21G08UR-A | MC.222082131 | | [4 G 0.50 + (2 x 0.35) + (2 x 26 AWG)] | 9.8 | 86 | |
| | HDSS17G08UR-A | | | [4 G 1.0 + (2 x 0.75) + (2 x 26 AWG)] | 11.5 | 113 | |
| | HDSS15G08UR-A | | | [4 G 1.5 + (2 x 0.75) + (2 x 26 AWG)] | 12.5 | 150 | |
| | HDSS13G08UR-A | MC.222081331 | | [4 G 2.5 + (2 x 1.0) + (2 x 26 AWG)] | 13.8 | 195 | |
| | ≤ 100 m connection | | | | | | |
| | HDSI17G08UR-A | MC.222081731 | | [4 G 1.0 + (2 x 0.75) + (2 x 22 AWG)] | 12.5 | 125 | |
| | HDSI15G08UR-A | MC.222081531 | | [4 G 1.5 + (2 x 1.0) + (2 x 22 AWG)] | 13.2 | 160 | |
| | HDSI13G08UR-A | MC.222081331 | | [4 G 2.5 + (2 x 1.0) + (2 x 22 AWG)] | 14.5 | 200 | |
| | HDSI11G08UR-A | MC.222081131 | | [4 G 4 + (2 x 1.5) + (2 x 22 AWG)] | 16.3 | 285 | |

Protocol: HMC6®

Manufacturer: **HEIDENHAIN®**



Protocol: EnDAT 2.2®

| | MotionCables Code | EPlan Code | OEM Code | Formation | | Cu | DATA SHEET |
|-------|-------------------|-------------|----------|--|------|-------|---------------------------------------|
| diam. | | | | mm² | mm | kg/km | |
| 499 | HDSH15G12UR-A | MC255121521 | | [4G1.5+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 13.0 | 165 | |
| | HDSH13G12UR-A | MC255121321 | | [4G2.5+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 14.2 | 210 | |
| | HDSH11G12UR-A | MC255121121 | | [4G4+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 16.5 | 285 | |
| | | | | | | | III I I I I I I I I I I I I I I I I I |

Protocol: EnDAT 3®

| | MotionCables Code | EPlan Code | OEM Code | Formation | | Cu | DATA SHEET |
|-----|-------------------|--------------|----------|-----------------------------------|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| 00 | HDSE19G08UR-A | MC.322081731 | | [4G0.75+1x(2x0.34)+1x((2x24AWG))] | 11.5 | 190 | |
| 000 | HDSE15G08UR-A | MC.322081531 | | [4G1.5+1x(2x0.75)+1x((2x24AWG))] | 13.2 | 255 | |
| 00 | HDSE11G08UR-A | MC.322081331 | | [4G4+1x(2x1.0)+1x((2x24AWG))] | 16.2 | 415 | |

Protocol: ILM 62®

| MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
|-------------------|--------------|----------|---------------------------|------|-------|------------|
| | | | mm² | mm | kg/km | |
| HDN13Z14UR-VE | MC.275141322 | | 5G2.5+2x(4x0.34)+1x(0.34) | 14.8 | 186 | |



EPLAN

All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

PUR

600 V 1000 V -50 °C

Hybrid OCT Servomotor cables, PUR outer sheath, Oil Resistant, High Dynamic Application, Halogen Free







AWM I/II A/B 90 °C - 1000V



LABS













MIN. BENDING RADIUS









60 m / s² ACCELERATION MAX



≤ **50** N / mm²



± 30 °/ m TORSION



50 m MAX. HORIZ. TRAVEL

DURABILITY IN MECHANICAL & THERMAL CONDITIONS

| | m.u. | | | | |
|------------------------|--------|-----------|-----------|-----------|-----------|
| CYCLES | MIL | 0,2 | 1 | 5 | 10 |
| MIN. BENDING RADIUS | x O.D. | 12 | 6,5 | 7,5 | 10 |
| MAXIMUM SPEED | m/min | 180 | 600 | 300 | 240 |
| MAXIMUM ACCELERATION | m/s² | 2,0 | 50 | 30 | 15 |
| PULLING FORCE | N/mm² | ≤ 50 | ≤20 | ≤ 20 | ≤ 20 |
| TORSION | °/m | - | ± 30 | ± 30 | ± 30 |
| MAX. HORIZONTAL TRAVEL | m | - | 3 | 15 | 50 |
| TEMPERATURE | °C | -50 / +90 | -40 / +90 | -40 / +90 | -40 / +90 |

ELECTRICAL PROPERTIES



4,0 kV x 5 min acc.to EN 50395 Cl. 10.3



 \geq 1.0 G Ω x km @ 20 °C acc.to EN 50395 Cl. 8.1



Max. Short Circuit **Temperature**

160 °C (≤ 1 s)



Operating Voltage

1000 V (UL/CSA) U₀/U 0.6/1.0 kV (IEC)

RESISTANCE TO ENVIRONMENTAL AND AGGRESSIVE CHEMICAL THREATS









FLAME RETARDANT COLD RESISTANT ABRASION RESISTANT EMC PROTECTED WATER RESISTANT









UV RESISTANT





MICROBE RESISTANT OZONE RESISTANT





| Latest Generation One Cable Architecture | Integrated transmission of power, brake, and digital data over a single high-performance cable |
|--|--|
| High-Resistance PUR Jacket | Excellent mechanical and chemical integrity even in harsh environments |
| Reinforced Structure for Long-Travel Cable Carriers and High Accelerations | Superior mechanical reliability even under extreme conditions |
| Communication Pair for Digital Feedback (DSL / S210 / EnDat 3) | Precise motor control and real-time diagnostics |
| Dual-Layer Composite Shielding | Noise immunity even in systems with high EMC emissions |
| Resistance to Mineral Oils, Coolants, and Chemical Agents | Ideal for wet areas or applications with industrial contaminants |
| Extended Temperature Range and Dimensional Stability | Consistent performance from -40°C to +90°C |
| Advanced Solution for Industry 4.0 | Supports predictive diagnostics, reduced downtime, and system digitalization |









Protocol: HYPERFACE DSL® Manufacturer: SICK® EPlan Code mm kg/km ≤ 50 m connection HDSS21G08UP-A MC.322082131 [4 G 0.50 + (2 x 0.35) + (2 x 26 AWG)] 9.8 86 HDSS17G08UP-A MC.322081731 [4 G 1.0 + (2 x 0.75) + (2 x 26 AWG)] 11.5 113 HDSS15G08UP-A MC.322081531 [4 G 1.5 + (2 x 0.75) + (2 x 26 AWG)] 12.5 150 HDSS13G08UP-A MC.322081331 [4 G 2.5 + (2 x 1.0) + (2 x 26 AWG)] 195 13.8 ≤ 100 m connection HDSI17G08UP-A [4 G 1.0 + (2 x 0.75) + (2 x 22 AWG)] MC.322081731 12.5 125 HDSI15G08UP-A MC.322081531 [4 G 1.5 + (2 x 1.0) + (2 x 22 AWG)] 13.2 160 HDSI13G08UP-A MC.322081331 [4 G 2.5 + (2 x 1.0) + (2 x 22 AWG)] 14.5 200 MC.322081131 HDSI11G08UP-A [4 G 4 + (2 x 1.5) + (2 x 22 AWG)] 16.3 285

| Protocol: HMC6 ® | Manufacturer: HEIDENHAIN ® | | | | | | | | |
|-------------------------|-----------------------------------|--------------|----------|---|------|-------|------------|--|--|
| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET | | |
| | | | | mm² | mm | kg/km | | | |
| 600A | HDS15G12UP-N | MC.323121525 | | [(3x1.50)+1G1.50+2x1.0+(2x0.30+2x2x0.15)] | 12.5 | 86 | | | |
| 0 | HDS13G12UP-N | MC.323121325 | | [(3x2.50)C+1G2.50+2x1.0+ (2x0.30+2x2x0.15)] | 14.2 | 113 | | | |
| | HDS11G12UP-N | MC.323121125 | | [(3x4.0)+1G4.0+2x1.0+(2x0.30+2x2x0.15)] | 16.5 | 150 | | | |
| 100 | | | | | | | 回数数据数据特 | | |

| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
|----|-------------------|-------------|----------|--|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| | HDSH15G12UP-A | MC355121531 | | [4G1.5+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 13.0 | 165 | |
| | HDSH13G12UP-A | MC355121331 | | [4G2.5+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 14.2 | 210 | |
| 56 | HDSH11G12UP-A | MC355121131 | | [4G4+1x(2x0.75)+1x(2x0.30+2x2x0.15)] | 16.5 | 285 | |



All the codes are available in the EPLAN PLAN8 System (use the EPLAN code in the relevant column).



SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).

Protocol: **EnDAT 3**®

| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
|----|-------------------|--------------|----------|-----------------------------------|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| 00 | HDSE19G08UP-A | MC.322081731 | | [4G0.75+1x(2x0.34)+1x((2x24AWG))] | 11.5 | 190 | |
| 6 | HDSE15G08UP-A | MC.322081531 | | [4G1.5+1x(2x0.75)+1x((2x24AWG))] | 13.2 | 255 | |
| 00 | HDSE11G08UP-A | MC.322081331 | | [4G4+1x(2x1.0)+1x((2x24AWG))] | 16.2 | 415 | |
| | | | | | | | 回頭形型河畔 |

| Protocol: SINAM | IICS S210® | | | | | | |
|------------------------|-------------------|--------------|--------------------|--------------------------------|------|-------|------------|
| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
| | | | | mm² | mm | kg/km | |
| | HDSSI22Z10UP-A | MC.356102231 | 6FX8008 Plus-1BE04 | [4G0.38 + (2x0.38) + (4x0.20)] | 9.5 | 79 | |
| | HDSSI19Z10UP-A | MC.356101931 | 6FX8008 Plus-1BE08 | [4G0.75 + (2x0.50) + (4x0.20)] | 10.4 | 105 | |
| TO ! | HDSSI15Z10UP-A | MC.356101531 | 6FX8008 Plus-1BE11 | [4G1.50 + (2x1.50) + (4x0.20)] | 12.3 | 162 | |
| | HDSSI13Z10UP-A | MC.356101331 | 6FX8008 Plus-1BE21 | [4G2.50 + (2x1.50) + (4x0.20)] | 13.3 | 214 | |



Protocol: ILM 62®

| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
|---|-------------------|--------------|----------|---------------------------|------|-------|------------|
| | | | | mm² | mm | kg/km | |
| | HDN13Z14UP-VE | MC.375141332 | | 5G2.5+2x(4x0.34)+1x(0.34) | 14.8 | 186 | |
| 0 | | | | | | | |

| tocol: INDR | NDYN-S® | | | Manufacturer: BOSCH-REX | | | | |
|--------------------|-------------------|--------------|----------|--------------------------------|------|-------|------------------|--|
| | MotionCables Code | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET | |
| | | | | mm² | mm | kg/km | | |
| | HDSBR19Z10UP-A | MC.357101931 | | [4G0.75+(2x0.50)+(4x24 AWG)] | 11.8 | 139 | ED ALESSA AND ED | |
| 300 | HDSBR15Z10UP-A | MC.357101531 | | [4G1.5+(2x0.75)+(4x24 AWG)] | 13.0 | 148 | | |
| 18 | HDSBR13Z10UP-A | MC.357101331 | | [4G2.5+(2x0.75)+(4x24 AWG)] | 15.8 | 159 | | |

| rotocol: MOVILINK DDI® | | | | Manufacturer: SEW ® | | | | |
|------------------------|-------------------|--|--------------|----------------------------|--------------------------------|------|-------|------------|
| | MotionCables Code | | EPlan Code | OEM Code | Formation | Ø | Cu | DATA SHEET |
| | | | | | mm² | mm | kg/km | |
| | HDSS15G09UP-A | | MC.359091531 | | [4G1.5+2(2x1.0)+1 Coax RG58] | 15.7 | 198 | |
| | HDSS13G09UP-A | | MC.359091331 | | [4G2.5+2(2x1.0)+1 Coax RG58] | 16.7 | 236 | |
| | HDSS11G09UP-A | | MC.359091131 | | [4G4+2(2x1.0)+1 Coax RG58] 17. | 17.0 | 302 | |
| 00 | HDSS09G09UP-A | | MC.359090931 | | [4G6+2(2x1.0)+1 Coax RG58] | 19.7 | 410 | |
| | HDSS07G09UP-A | | MC.359090731 | | [4G10+2(2x1.0)+1 Coax RG58] | 22.1 | 605 | |





SPAC CAVI

All the codes are available in the SPAC CAVI system (use MotionCables item code).



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