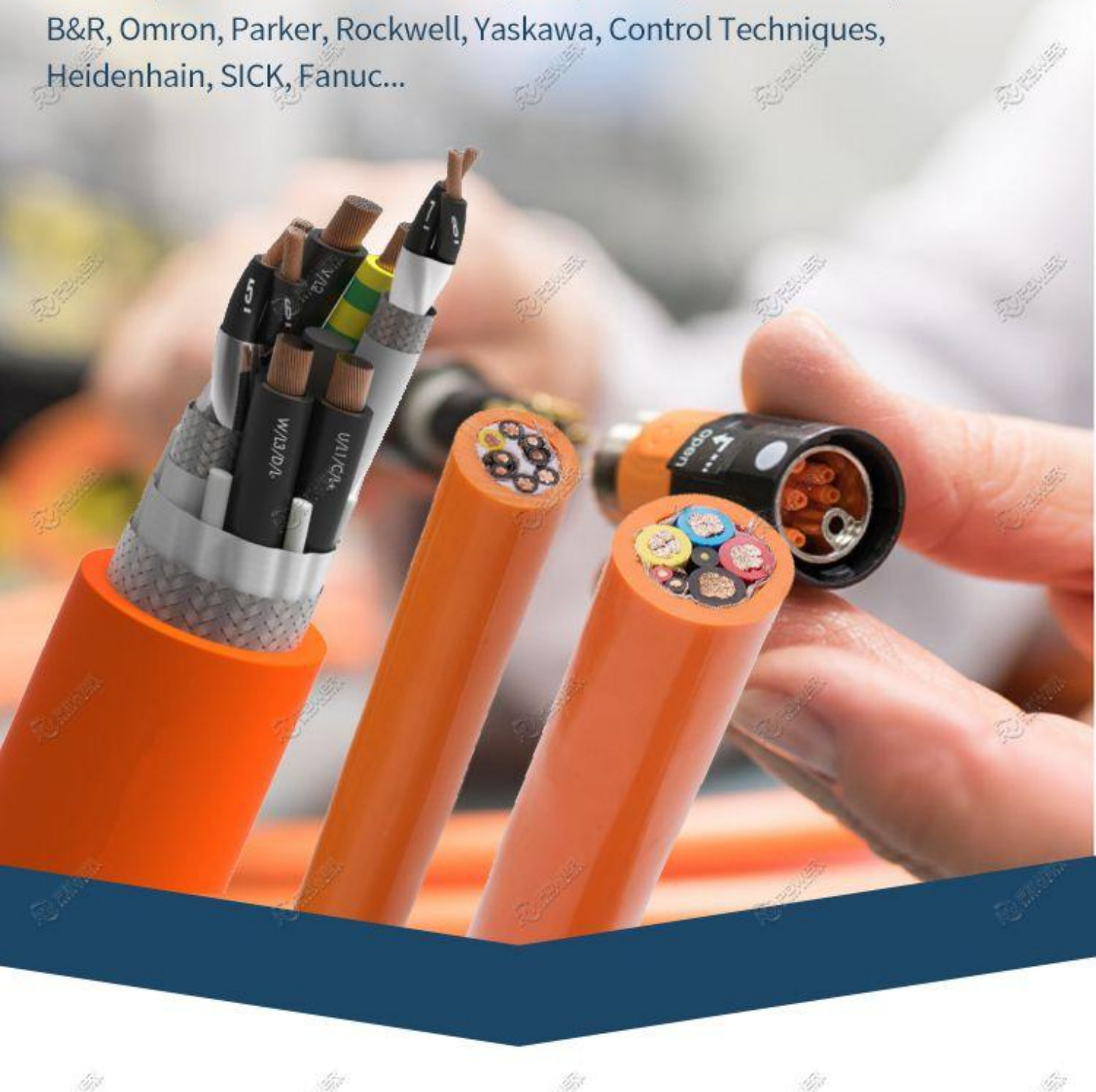
SERVO CABLE

These cables specifically designed for application on machine tools.With small diameters, more flexible conductive formations, special materials in the insulation and outer sheaths,these cables are optimized to operate in cable chains and automation systems which require special services. The entire range compliesincludes power cables, control and hybrids.In this line you will find cables for:

- OCT (One Cable Technology) solutions for digital systems (DSL, EnDat 2.2).
- Cables for servo-drives.
- Feedback, encoder, resolver, speed sensor, signal system cables, shielded.
- Fieldbus systems cables.
- Drag chain cables for harsh operating conditions.
- For fixed, flexible and highly flexible use in power and drag chains.
- Fully compatible with the most common systems as for example: Siemens, Bosch Rexroth Indramat, SEW, Lenze, Schneider Elau, B&R, Omron, Parker, Rockwell, Yaskawa, Control Techniques, Heidenhain, SICK, Fanuc...



OUR ADVANTAGES

EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUE STON A SHORT NOTICE AND EFFEC TIVELY.

NO PRICE FIGHTS

WE ESCAPED THE OLASSICAL REBATE UNTILYOU DROP " POLICY . WE ARE PRICE WISE SINCETHE BEGINNING

HIGH LEVEL EXPERIENCE

QUR TECHNLAL CAPABILITIES HAVE BEENTESTED FOR MORE THAN 30 YEARS ANDINDRECT CONNECTION WITH END USERS . SO TOSAY

ENDLESS INVESTIGATION

WE CONTINUOUSY MEASURE EVERYTHINGTEST . TEST AND TESTAGAIN . THIS HELPS NUNDERSTAND RISKS AND REWARDS . ANDBEPREPARED

NO FORTUNE TELLER

WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPINGA'NOTTODO LISTFOR EVERYOVE OF THEM

TEAM BUILDING

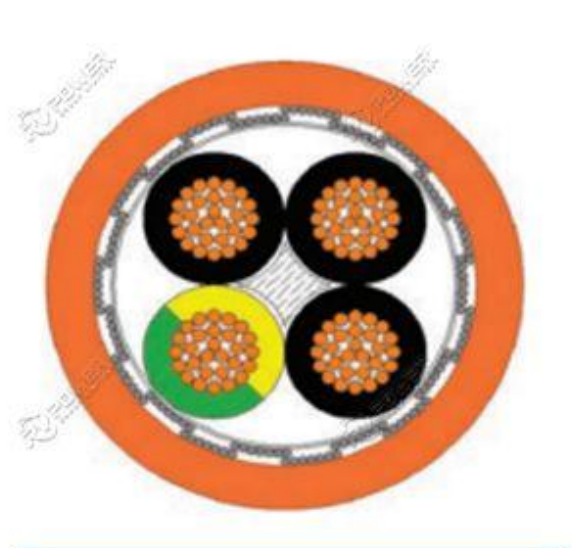
OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

SERVO CABLE

Servo Cable is a series designed for power and control of drive systems with servo motor.

The conductors offer high flexibility and the insulating materials provide various levels for both static and dynamic performance in high-speed cable chain with resistance to oils and industrial fluids as well as in the version with PUR outer-sheath, higher abrasion resistance. All the cables have an high coverage tinned copper braid shield that provides excellent EMC performance.

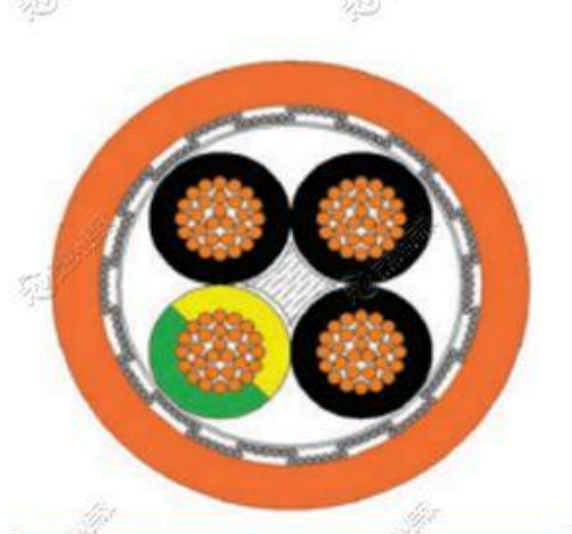
PRODUCT MIX



180SERVO POWER
BASIC PERFORMANCE

APPLICATIVE FEATURES

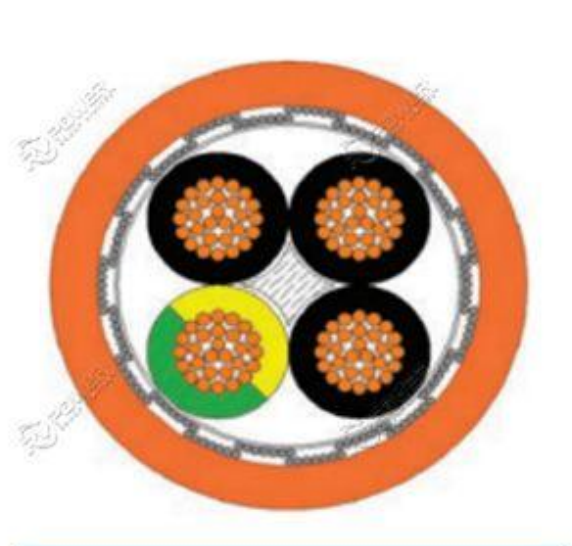
10 x O.D.



300SERVO POWER
DYNAMIC PERFORMANCE

APPLICATIVE FEATURES

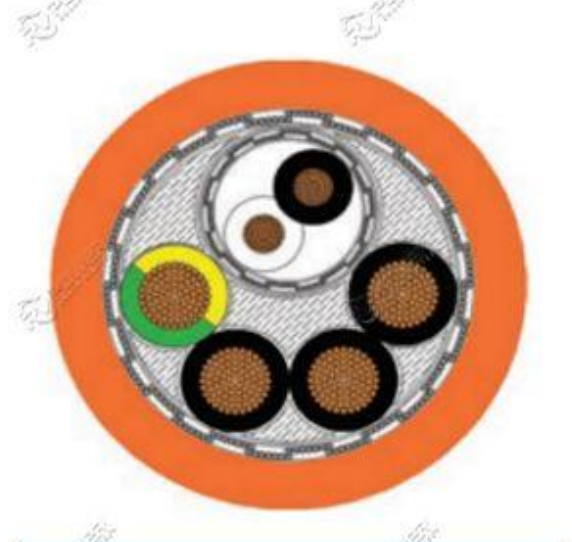
5.000.000 cycles
6,5 x O.D.
300 m/min
20 m/s²



600SERVO POWER
HIGH PERFORMANCE

APPLICATIVE FEATURES

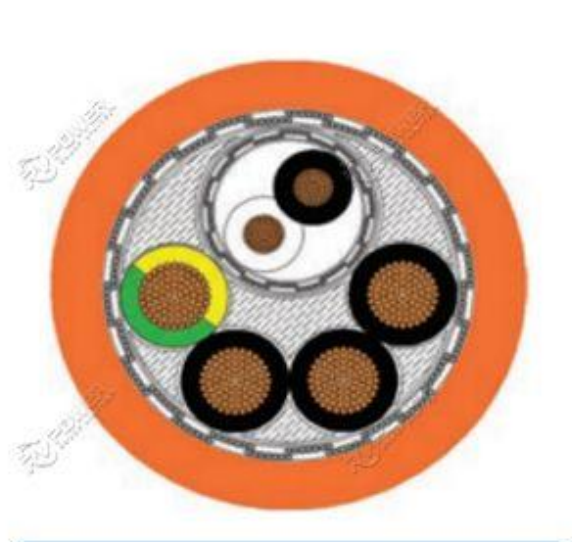
10.000.000 cycles
6,5 x O.D.
600 m/min
60 m/s²



180SERVO
BASIC PERFORMANCE

APPLICATIVE FEATURES

10 x O.D.



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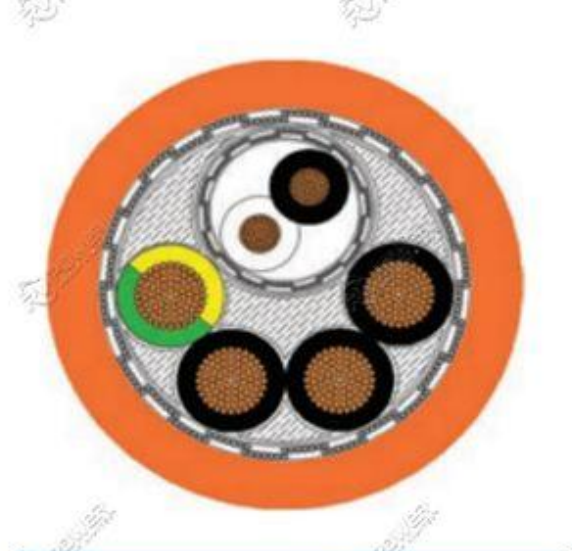

600SERVO
HIGH PERFORMANCE

APPLICATIVE FEATURES

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600 m/min
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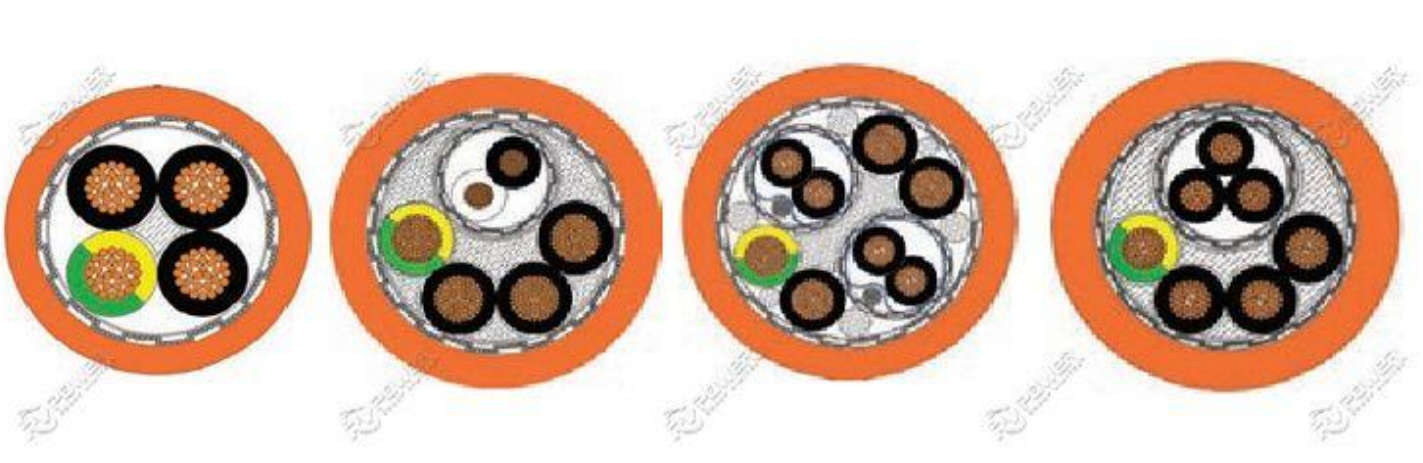


PVC

TECHNICAL DATA

OPERATING VOLTAGE
0,6 / 1.0 kV

TEMPERATURE (operative)
STATIC -40 °C / + 80 °C
DYNAMIC -25 °C / + 80 °C

DIELECTRIC STRENGTH
4,0 kV acc.to EN 50395 Part 6,7

INSULATION RESISTANCE
≥ 1 GΩ x km acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE
IEC 60228 Cl. 6 acc.to EN 50395 Part 5

CONSTRUCTION FEATURES

Conductor	Flexible Bare Copper Class 6 acc.to IEC 60228
Insulation (control)	Special Polypropylene Compound
Colour code (control)	White / Black or Black numbered
Shield	Tinned Copper Braid O.C. ≥ 85% (Drain Wire and AL/PET tape where appropriate)
Insulation (power)	Special Polypropylene
Colour code (power)	1. Black with white print U /L1 /C /L+ 2. Black with white print V /L2 3. Black with white print W /L3 /D /L- Green/Yellow
Shield	Tinned Copper Braid O.C. ≥ 85%
Separator	Easy Strip-Away Tape
Outer Sheath	PVC
Colour	RAL 2003 Orange RAL 2003

PUR

TECHNICAL DATA

OPERATING VOLTAGE
0,6 / 1,0 kV

TEMPERATURE (operative)
STATIC -50 °C / + 80 °C
DYNAMIC -40 °C / + 80 °C

DIELECTRIC STRENGTH
4,0 kV acc.to EN 50395 Part 6,7

絕緣電阻
INSULATION RESISTANCE
≥ 1 GΩ x km acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE
IEC 60228 Cl. 6 acc.to EN 50395 Part 5

CONSTRUCTION FEATURES

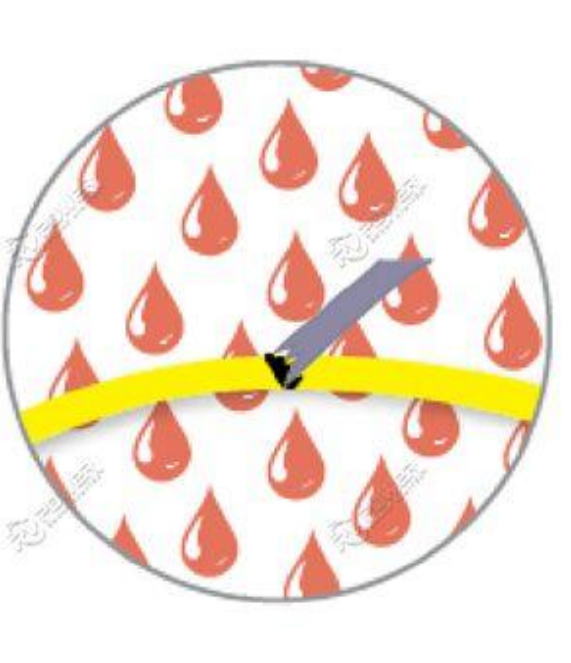
Conductor	Flexible Bare Copper Class 6 acc.to IEC 60228
Insulation (control)	Special Polypropylene Compound
Colour code (control)	White / Black or Black numbered
Shield	Tinned Copper Braid O.C. ≥ 85% (Drain Wire and AL/PET tape where appropriate)
Insulation (power)	Special Polypropylene
Colour code (power)	1. Black with white print U /L1 /C /L+ 2. Black with white print V /L2 3. Black with white print W /L3 /D /L- Green/Yellow
Shield	Tinned Copper Braid O.C. ≥ 85%
Separator	Easy Strip-Away Tape
Outer Sheath	PUR
Colour	Orange RAL 2003

Acc.to Systems	MotionCables Code	OEM Reference	Cable formation	Ø mm	Cu kg/km	Bending Rad	Outer Colour
IEMENS® MC 500Plus	RV15G06UR-A	6FX5008-1BA11 Plus	[4 G 1.5 + (2 x 1.5)]	10,5	155	80	●
	RV13G06UR-A	6FX5008-1BA21 Plus	[4 G 2.5 + (2 x 1.5)]	12,0	200	90	●
	RV11G06UR-A	6FX5008-1BA31 Plus	[4 G 4 + (2 x 1.5)]	13,5	272	100	●
	RV09G06UR-A	6FX5008-1BA41 Plus	[4 G 6 + (2 x 1.5)]	15,6	377	155	●
	RV07G06UR-A	6FX5008-1BA51	[4 G 10 + (2 x 1.5)]	21.0	552	210	●
	RV05G06UR-A	6FX5008-1BA61	[4 G 16 + (2 x 1.5)]	24,1	880	240	●
	RV03G06UR-A	6FX5008-1BA25	[4 G 25 + (2 x 1.5)]	26,6	1210	265	●
	RV02G06UR-A	6FX5008-1BA35	[4 G 35 + (2 x 1.5)]	30,9	1570	310	●
	RV1G06UR-A	6FX5008-1BA50	[4 G 50 + (2 x 1.5)]	34,0	2299	340	●
ENZE®	RV17G06UR-A		[4 G 1.0 + (2 x 0,5)]	10,0	91	75	●
	RVL15G06UR-A		[4 G 1.5 + (2 x 0,5)]	11.5	106	85	●
	RV13G06UR-A		[4 G 2.5 + (2 x 0,5)]	13,2	153	100	●
	RV11G06UR-A		[4 G 4,0 + (2 x 1.0)]	14,6	235	110	●
	RV09G06UR-A		[4 G 6,0 + (2 x 1.0)]	16,8	316	170	●
	RV07G06UR-A		[4 G 10 + (2 x 1.0)]	20,1	513	200	●
	RV05G06UR-A		[4 G 16 + (2 x 1.0)]	23,8	710	240	●
OSH REXROTH NDRAMAT®	RVI19G06UR-A	INK 670	[4 G 0.75 + (2 x 0.50)]	10,0	73	75	●
	RVI17G08UR-A	INK 653	[4 G 1.0 + 2 x (2 x 0.75)]	11,6	170	85	●
	RVI15G08UR-A	INK 650	[4 G 1,5 + 2 x (2 x 0.75)]	12,2	189	90	●
	RVI13G08UR-A	INK 602	[4 G 2.5 + 2 x (2 x 1.0)]	14,6	223	110	●
	RVI11G08UR-A	INK 603	[4 G 4 + (2 x 1) + (2 x 1.5)]	16,3	309	165	●
	RVI09G08UR-A	INK 604	[4 G 6 + (2 x 1) + (2 x 1.5)]	18,1	395	180	●
	RVI07G08UR-A	INK 605	[4 G 10 + (2 x 1) + (2 x 1.5)]	21,8	575	220	●
	RVI05G08UR-A	INK 606	[4 G 16 + 2 x (2 x 1.5)]	25,5	850	255	●
	RVI03G08UR-A	INK 607	[4 G 25 + 2 x (2 x 1.5)]	28,8	1250	290	●
	RVI02G08UR-A	INK 667	[4 G 35 + 2 x (2 x 1.5)]	30,9	1588	310	●
	RVI01G08UR-A	INK 668	[4 G 50 + 2 x (2 x 2.5)]	36,3	2351	365	●
EW EURODRIVE®	RV15G07UR-A		[4 G 1.5 + (3 x 1.0)]	11,8	150	90	●
	RV13G07UR-A		[4 G 2.5 + (3 x 1.0)]	13,4	213	100	●
	RV11G07UR-A		[4 G 4 + (3 x 1.0)]	15,0	280	115	●
	RV09G07UR-A		[4 G 6 + (3 x 1.5)]	17,0	390	170	●
	RV07G07UR-A		[4 G 10 + (3 x 1.5)]	20,0	620	200	●

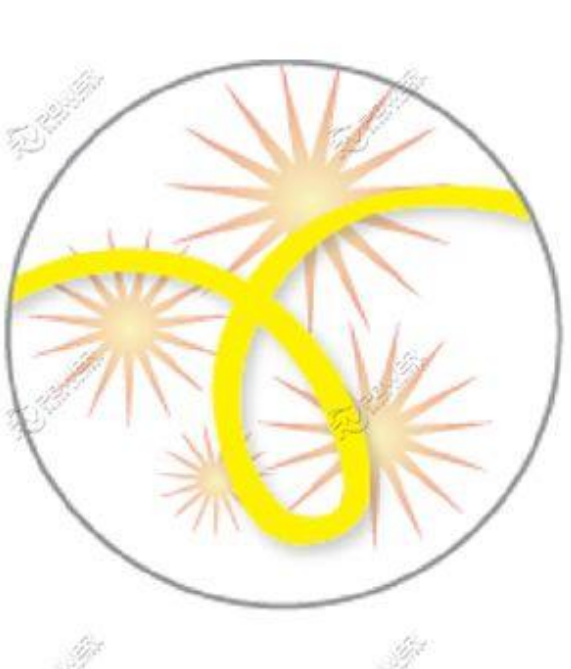
WHICH CABLE JACKET IS BEST FOR YOUR APPLICATION?

There are many different types of cable jackets and each jacket works well in a specific application. The three main sensor cable jackets are PVC (Polyvinyl Chloride), PUR (polyurethane) and TPE (thermoplastic elastomer). Each jacket type has different benefits like washdown, abrasion resistant or high flexing applications. Finding the correct jacket type for your application can extend the life of the cable.

PVC is a general purpose cable and is widely available. It is a common cable, and typically has the best price point. PVC has a high moisture resistance, which makes it a good choice for wash-down applications.



PUR is found mostly in Asia and Europe. This cable jacket type has good resistance against abrasion, oil and ozone. PUR is known for being Halogen free, not containing: chlorine, iodine, fluorine, bromine or astatine. This jacket type does have limited temperature range compared to the other jacket types, -40…80℃.



TPE is flexible, recyclable and has excellent cold temperature characteristics, -50…125⊠C. This cable is resistant against aging in the sunlight, UV and ozone. TPE has a high-flex rating, typically 10 million.

The table below details the resistance to different conditions. Note that these relative ratings are based on average performance. Special selective compounding of the jacket can improve performance.

Choosing the right jacket type can help reduce failures in the field, reducing downtime and costs.

Resistance to:	PVC	PUR	TPE
Oxidation	Excellent	Excellent	Outstanding
Heat	Good - Excellent	Excellent	Outstanding
Oil	Fair	Outstanding	Outstanding
Low Temperature Flexibility	Poor-Good	Exceltent	Outstanding
Weather, Sun	Good – Excellent	Excellent	Outstanding
Ozone	Exceltent	Exceltent	Excellent
Abrasion	Fair-Good	Exceltent	Excellent
Electrical Properties	Far-Good	Exceltent	Excellent
Flame	Excellent	Exceltent	Outstanding
Nuclear Radiation	Far	Exceltent	Poor
Water	Good - Exceltent	Good - Exceltent	Exceltent
Acid	Good - Exceltent	Excellent	Excellent
Alkali	Good - Excellent	Excellent	Excellent
Gasoline	Poor	Exceltent	Excellent
Benzol	Poor - Far	Excellent	Excellent
Degreaser Solvents	Poor - Far	Excellent	Excellent
Alcohol	Good - Excellent	Excellent	Excellent
Weld Slag	Fair	Excellent	Excellent

PRODUCT MIX

DETAIL DISPLAY

ONE

OXYGEN FREE PURE COPPER

Extra Flexible Bare Copper Class 6 acc.to IEC 60228

TWO

INSULATION

PUR/Special Rubber compound/on request

THREE

REINFORCE

steel wire / Kevlar braid (optional) /on request Play the role of bearing gravity and super tensile for the cable, and make the cable life longer

FOUR

LOW ECCENTRICITY

The outer skin is thin and uniform, effectively preventing current breakdown and ensuring power safety

FIVE

HIGH FLEXIBLE THREAD BODY

Special Thermoplastic Compound PUR/Special rubber compound based on NBR/others.Special Thermoplastic Compound PUR/Special rubber compound based on NBR/others

OIL RESISTANT
FLAE RESISTANT
HALOGEN FREE
COLD RESISTANT
ABRASION RESISTANT
OZONE RESISTANT
UV RESISTANT
MICROBE RESISTANT
MUD RESISTANT
WATER RESISTANT