

OCT 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 comprises 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 QUALITIES IT PERMIT US TO COPE WITH YOUR REQUESTS A SHORT NOTICE AND EFFECTIVELY.



NO PRICE FIGHTS
WE ESCAPED THE CLASSICAL REBATE UNTIL YOU DROP POLICY. WE ARE PRICE WISE SINCE THE BEGINNING



HIGH LEVEL EXPERIENCE
OUR TECHNICAL CAPABILITIES HAVE BEEN TESTED FOR MORE THAN 30 YEARS AND IN DIRECT CONNECTION WITH END USERS. SO TODAY



ENDLESS INVESTIGATION
WE CONTINUOUSLY MEASURE EVERYTHING TEST, TEST AND TEST AGAIN. THIS HELPS US UNDERSTAND RISKS AND REWARDS, AND BE PREPARED



NO FORTUNE TELLER
WE BASE OUR DECISIONS ON CLEAR BUSINESS PLANS, THINKING BEFORE MAKING OUR STEPS AND KEEPING A NOT TO DO LIST FOR EVERY MOVE OF THEM



TEAM BUILDING
OUR TEAM IS MADE NOT ONLY BY OUR STAFF BUT IT INCLUDES ALSO ALL OUR CUSTOMERS WE ACT LIKE A TEAM WE GROW LIKE A TEAM WE WIN LIKE A TEAM

OCT ONE CABLE

In the machine tools market the OCT (One Cable Technology) solutions are becoming increasingly common. The single-cable solution ensures that instead of the traditional servo cable for power supply and sensor cable for the position information, the transmission and signal are integrated into one single cable. The precondition for the use of a single-cable solution between the servomotor and the controller is the use of a hardware-based encoder designed for this purpose.

PRODUCT MIX



180 OCT-BP

APPLICATIVE FEATURES

5.000.000 cycles $10 \times O.D.$



300 OTC-DP 110Q

APPLICATIVE FEATURES

5.000.000 cycles $6,5 \times O.D.$



600 OTC-HP 110Q

APPLICATIVE FEATURES

10.000.000 cycles $6,5 \times O.D.$



300 HE OCT - DP ENDAT 2.2 120Q

APPLICATIVE FEATURES

10.000.000 cycles $6,5 \times O.D.$



600 HE OCT - HP ENDAT 2.2 120Q

APPLICATIVE FEATURES

10.000.000 cycles $6,5 \times O.D.$



300 BR OCT - DP ENDAT 2.2 120Q

APPLICATIVE FEATURES

10.000.000 cycles $6,5 \times O.D.$



600 BR OCT - HP ENDAT 2.2 120Q

APPLICATIVE FEATURES

10.000.000 cycles $6,5 \times O.D.$

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 $\geq 1 G\Omega \times km$ acc.to EN 50395 Part 8
	ELECTRICAL RESISTANCE IEC 60228 Cl. 6 acc.to EN 50395 Part 5

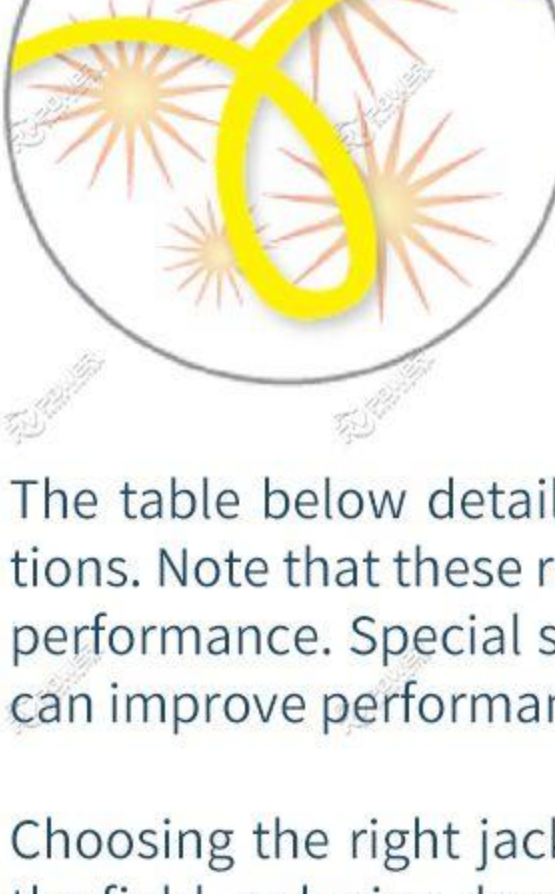
PVC CONSTRUCTION FEATURES		
EnDat	Conductor Insulation	Flexible Tinned Copper Polyolefin - Gray, Pink, Violet, Yellow, Green/White, Green/Brown
	Shield Tape	Tinned Copper braid Non Woven Tape
Control	Conductor Insulation	Flexible Bare Copper Special PP - GN/WH, BL/WH
	Shield	Tinned Copper braid
Power	Conductor Insulation	Bare copper Cl 6 Special PP - Black, Blue, Brown, Green Yellow
Shield	Tinned Copper Braid O.C. $\geq 85\%$	
Separator	Easy Strip-Away Tape	
Outer Sheath	PVC	
Colour	Orange RAL 2003	

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
	INSULATION RESISTANCE $\geq 1 G\Omega \times km$ acc.to EN 50395 Part 8
	ELECTRICAL RESISTANCE IEC 60228 Cl. 6 acc.to EN 50395 Part 5

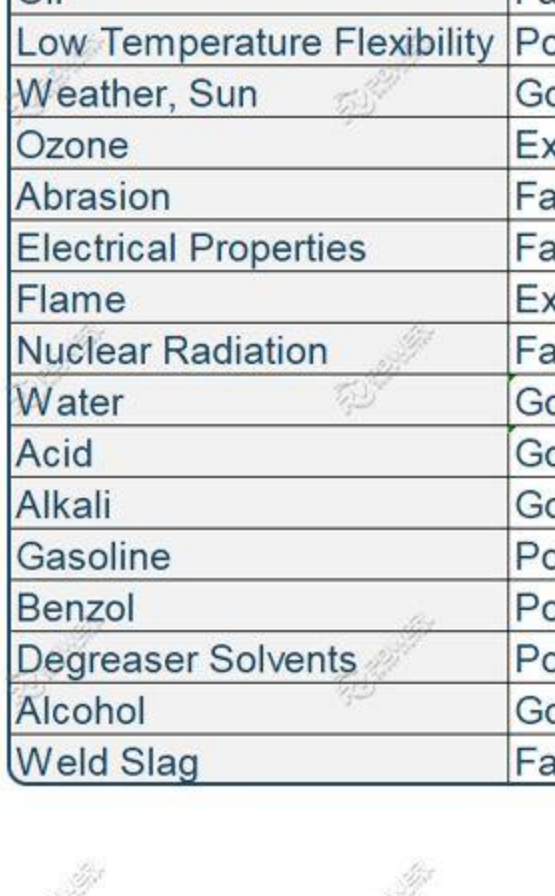
PUR CONSTRUCTION FEATURES		
EnDat	Conductor Insulation	Flexible Tinned Copper Polyolefin - Gray, Pink, Violet, Yellow, Green/White, Green/Brown
	Shield Tape	Tinned Copper braid Non Woven Tape
Control	Conductor Insulation	Flexible Bare Copper Special PP - GN/WH, BL/WH
	Shield	Tinned Copper braid
Power	Conductor Insulation	Bare copper Cl 6 Special PP - Black, Blue, Brown, Green Yellow
Shield	Tinned Copper Braid O.C. $\geq 85\%$	
Separator	Easy Strip-Away Tape	
Outer Sheath	PUR	
Colour	Orange RAL 2003	

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°C.



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	Excellent	Outstanding
Weather, Sun	Good - Excellent	Excellent	Outstanding
Ozone	Excellent	Excellent	Excellent
Abrasion	Fair-Good	Excellent	Excellent
Electrical Properties	Fair-Good	Excellent	Excellent
Flame	Excellent	Excellent	Outstanding
Nuclear Radiation	Fair	Excellent	Poor
Water	Good - Excellent	Good - Excellent	Excellent
Acid	Good - Excellent	Excellent	Excellent
Alkali	Good - Excellent	Excellent	Excellent
Gasoline	Poor	Excellent	Excellent
Benzol	Poor - Fair	Excellent	Excellent
Degreaser Solvents	Poor - Fair	Excellent	Excellent
Alcohol	Good - Excellent	Excellent	Excellent
Weld Slag	Fair	Excellent	Excellent

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