

CONTROL SIGNAL CABLE


STANDARD STATIC AND DYNAMIC APPLICATION CABLES

The cables of this family cover the main application requirements for power, signal and control in automation systems.


For each type of applications we have chosen the most modern materials, adequate to ensure the maximum reliability of the electrical connection.

From the fixed installation up to continuous movements with high performance behaviour, all our cables are characterized by excellent resistance to oils and industrial fluids, low capacity and - in the shielded version - with an excellent noise immunity

300 V - 80 °C (22 AWG, 24 AWG, 26 AWG 0.14mm² - 0.25mm² - 0.34mm²)




OUR ADVANTAGES




EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITIES! IT PERMITS US TO COPE WITH YOUR REQUESTS AT A SHORT NOTICE AND EFFECTIVELY.



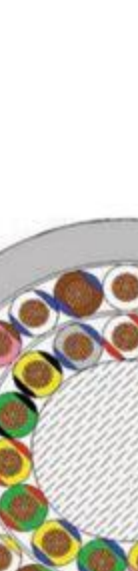
NO PRICE FIGHTS

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 INDIRECT CONNECTION WITH END USERS. SO TODAY




ENDLESS INVESTIGATION

WE CONTINUOUSLY MEASURE EVERYTHING! TEST AND TEST AGAIN. THIS HELPS US TO 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-ONE OF THEM.



TEAM BUILDING

OUR TEAMS MADE NOT ONLY BY OUR STAFF BUT ALSO ALL OUR CUSTOMERS BECAUSE WE GROW LIKE A TEAM. WE WIN LIKE A TEAM.

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SIGNAL CABLES WITH RATED CROSS

Signal cables with rated cross sections from 0.14mm² up to 0.34mm². The signal cables are suitable - for their construction - to be used with encoder, I/O connection, sensors, etc..

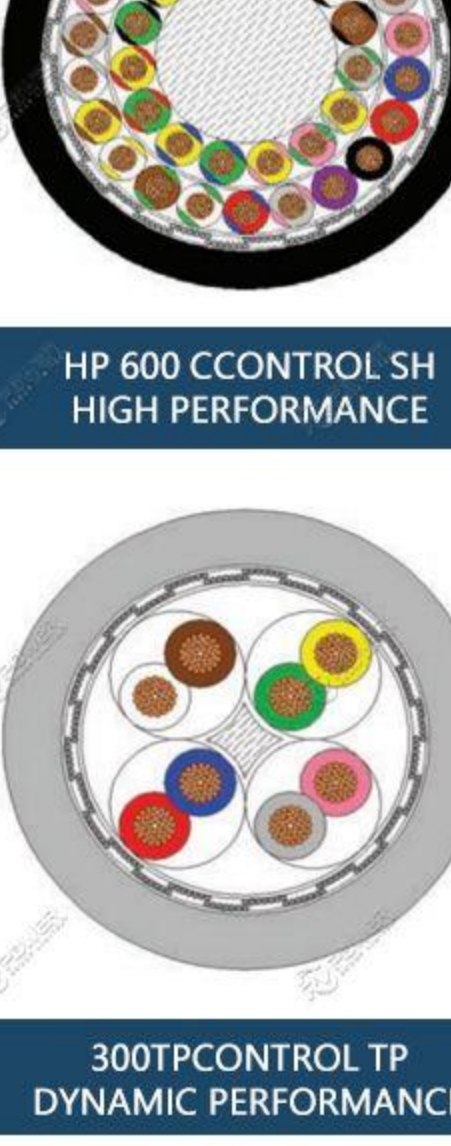
For their size, the signal cable conductors are set up with different colours of the sheath according to the DIN 47100 standard.

A low capacity dielectric with high insulation resistance, allows us reduced dimensions.




PRODUCT MIX

APPLICATIVE FEATURES




DP 300 CONTROL DYNAMIC PERFORMANCE




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

APPLICATIVE FEATURES




HP 600 CONTROL HIGH PERFORMANCE




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

APPLICATIVE FEATURES




DP 300 C CONTROL SH DYNAMIC PERFORMANCE




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

APPLICATIVE FEATURES




HP 600 C CONTROL SH HIGH PERFORMANCE

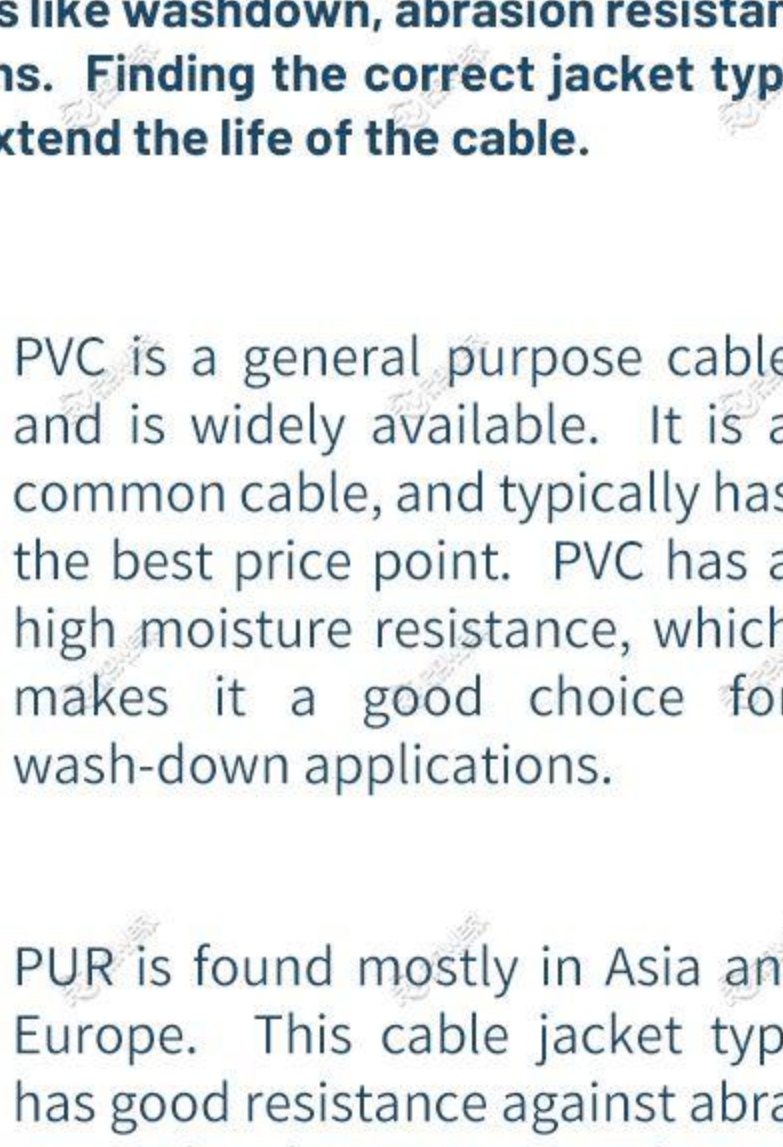


10.000.000 cycles
600 m/min
6,5 x O.D.
60 m/s²

APPLICATIVE FEATURES

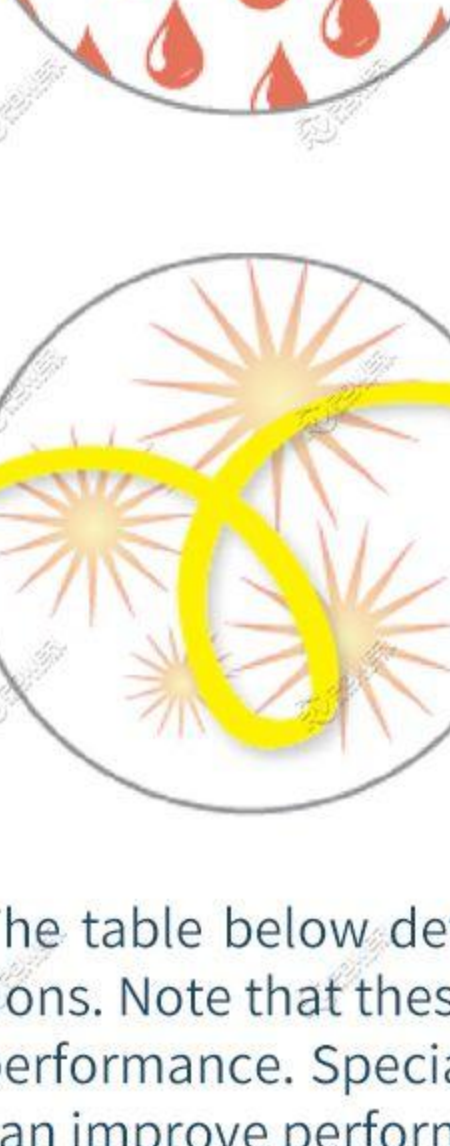


300 T P CONTROL TP DYNAMIC PERFORMANCE

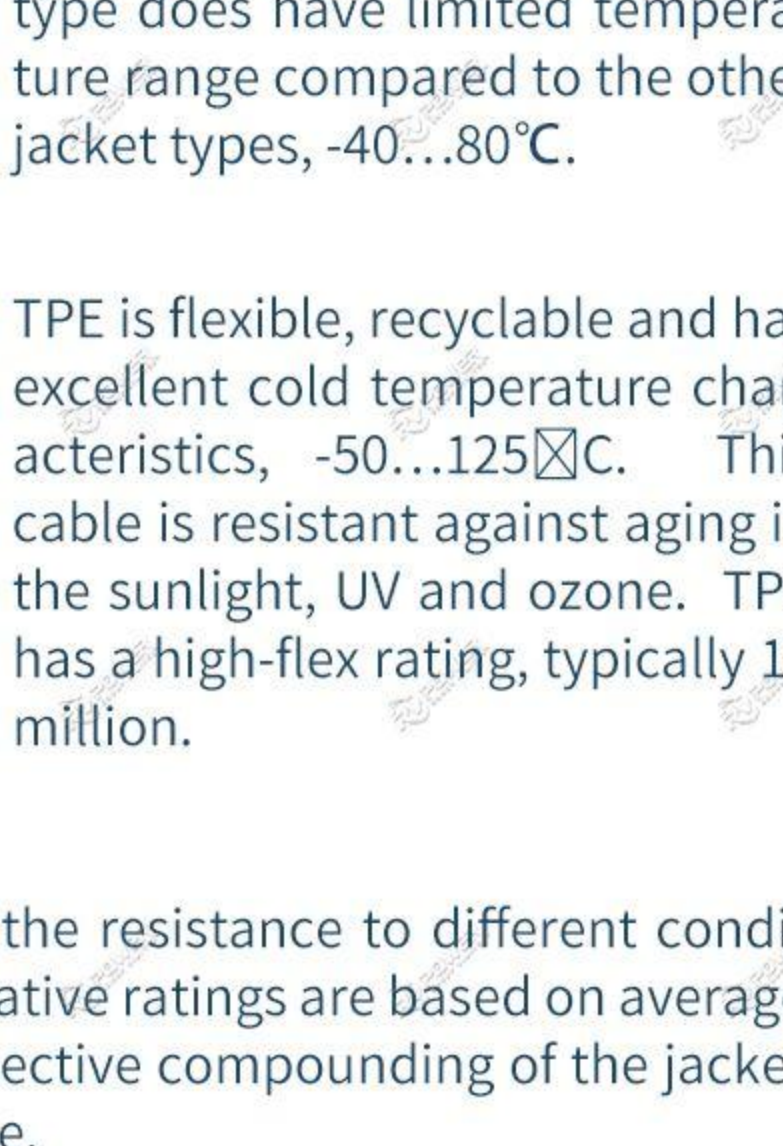


5.000.000 cycles
300 m/min
6,5 x O.D.
20 m/s²

APPLICATIVE FEATURES








HP 600 T P CONTROL TP HIGH PERFORMANCE



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

TECHNICAL DATA

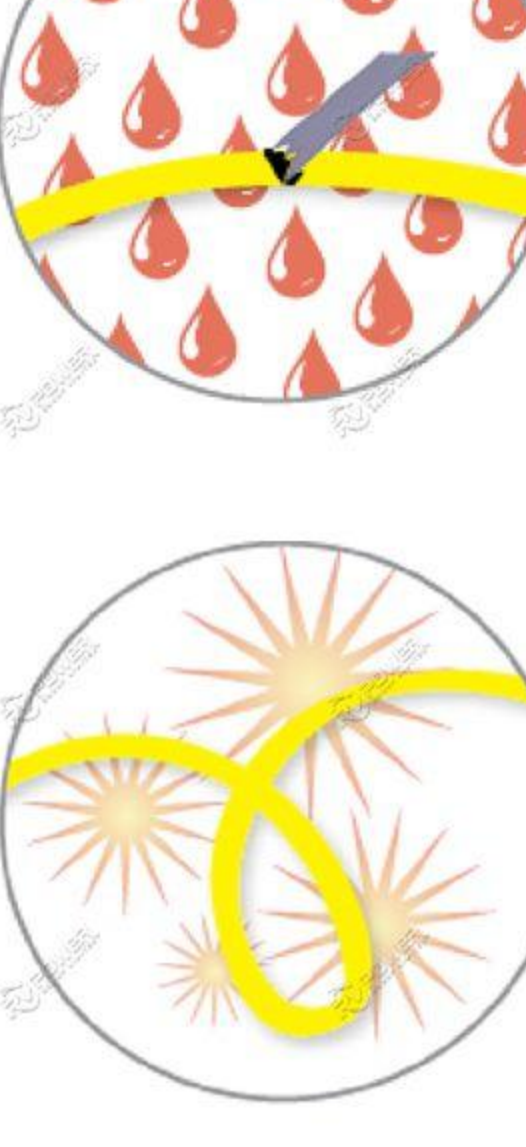
	OPERATING VOLTAGE 300 V
	TEMPERATURE (operative) STATIC -40 °C / +80 °C DYNAMIC -25 °C / +80 °C
	DIELECTRIC STRENGTH 1.5 kV acc.to EN 50395 Part 6.7
	INSULATION RESISTANCE ≥ 2500 MΩ x km acc.to EN 50395 Part 8
	ELECTRICAL RESISTANCE 26 AWG ≤ 135.0 Ω/km 24 AWG ≤ 82.4.0 Ω/km 22 AWG ≤ 53.2 Ω/km

CONSTRUCTION FEATURES


Conductor	Extra Flexible Bare Copper
Insulation	Special Polypropylene
Colour code	OEM
Assembly	Multi-layers divided by non-woven tape insert
Shield	Tinned Copper Braid O.C. ≥ 85%
Separator	Easy Strip-Away Tape
Outer Sheath	PVC
Colour	Grey RAL 7001

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.


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



CONTROL SIGNAL CABLE



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




FLAME RESISTANT




HALOGEN FREE




COLD RESISTANT




ABRASION RESISTANT




OZONE RESISTANT




UV RESISTANT



MICROBE RESISTANT



MUD RESISTANT



WATER RESISTANT