

SINGLE CORE POWER CABLES

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

0,6 / 1.0 kV - 80 °C (6,0 mm2/ 300 mm2)




OUR ADVANTAGES




EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITIES IT PERMIT US TO COPE WITH YOUR REQUEST ON 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 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 IT INCLUDES ALSO ALL OUR CUSTOMERS WHO REACT LIKE A TEAM WE GROW LIKE A TEAM WE WIN LIKE A TEAM

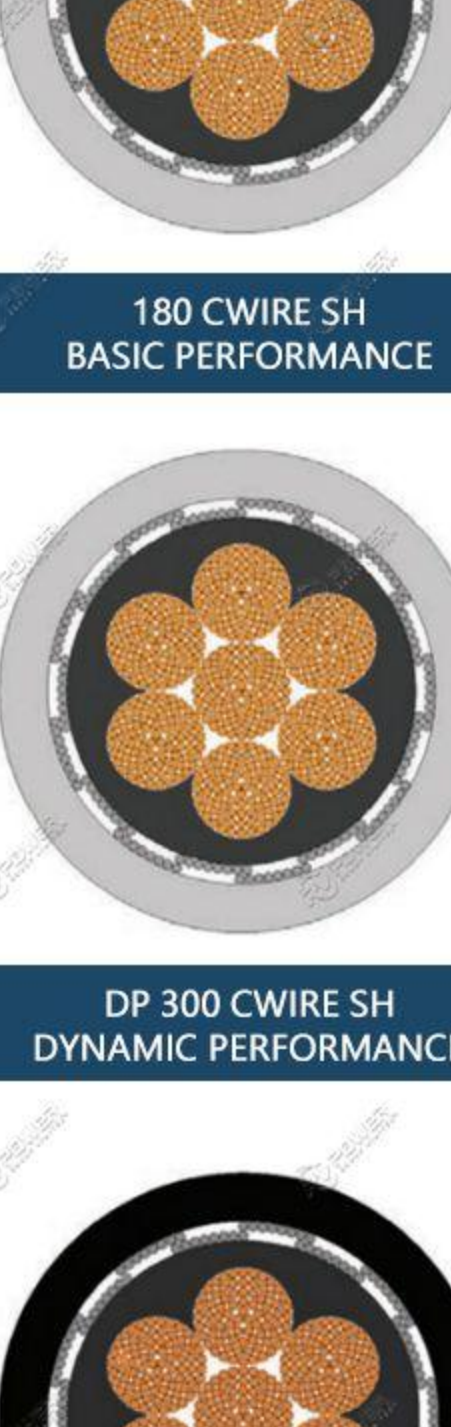
SINGLE CORE POWER CABLES.

single core power cables. These cables are suitable - due to their construction - to the connection of I/O, motors, etc.

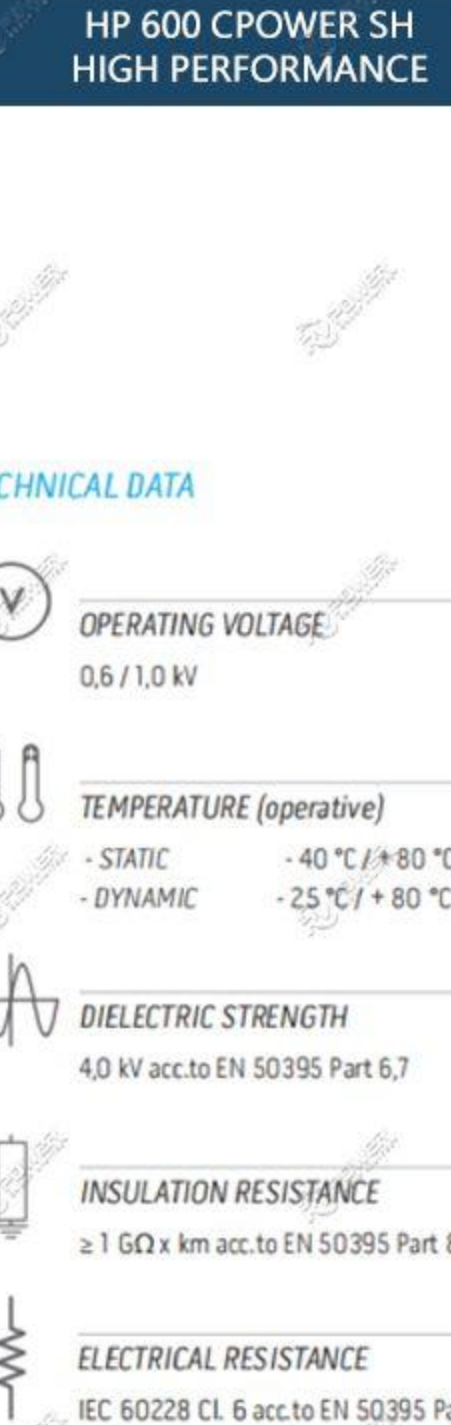
The HDPE dielectric, with low capacitance and high insulation resistance, allows smaller sizes and better temperature resistance.



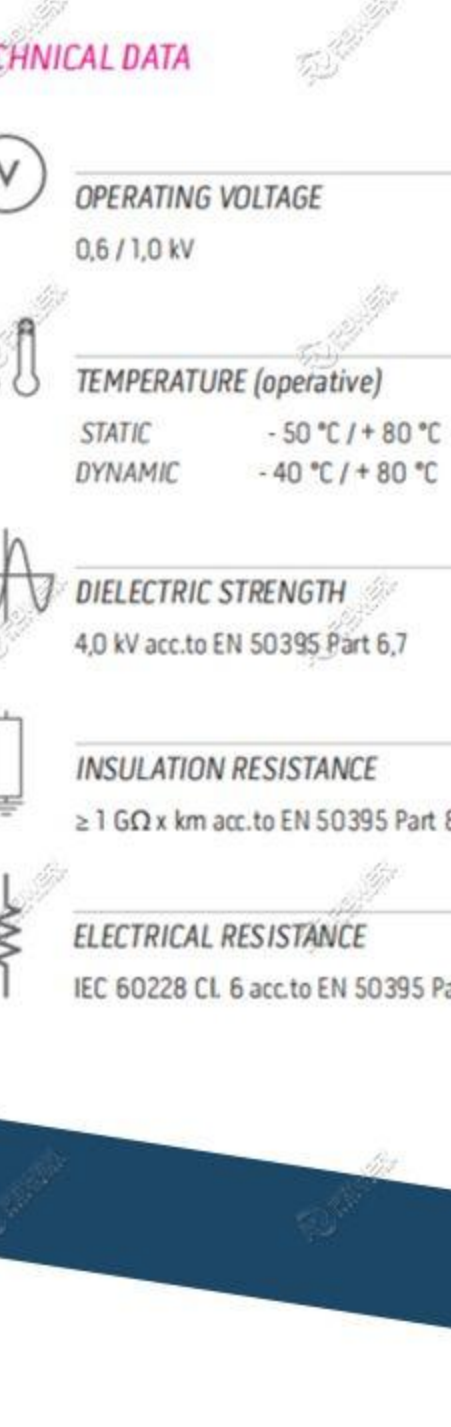
PRODUCT MIX



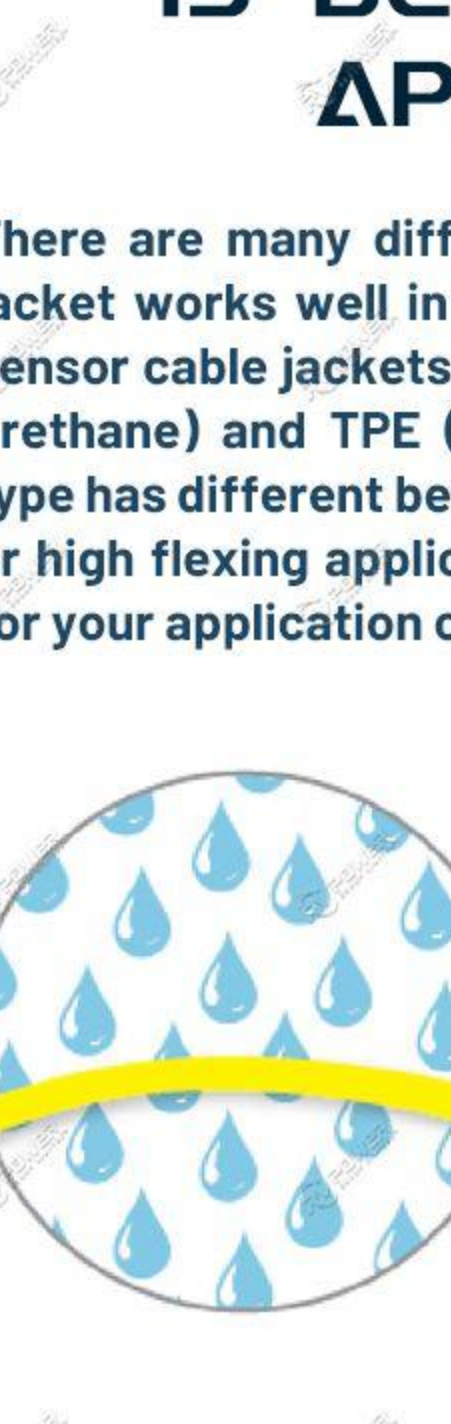
180 WIRE



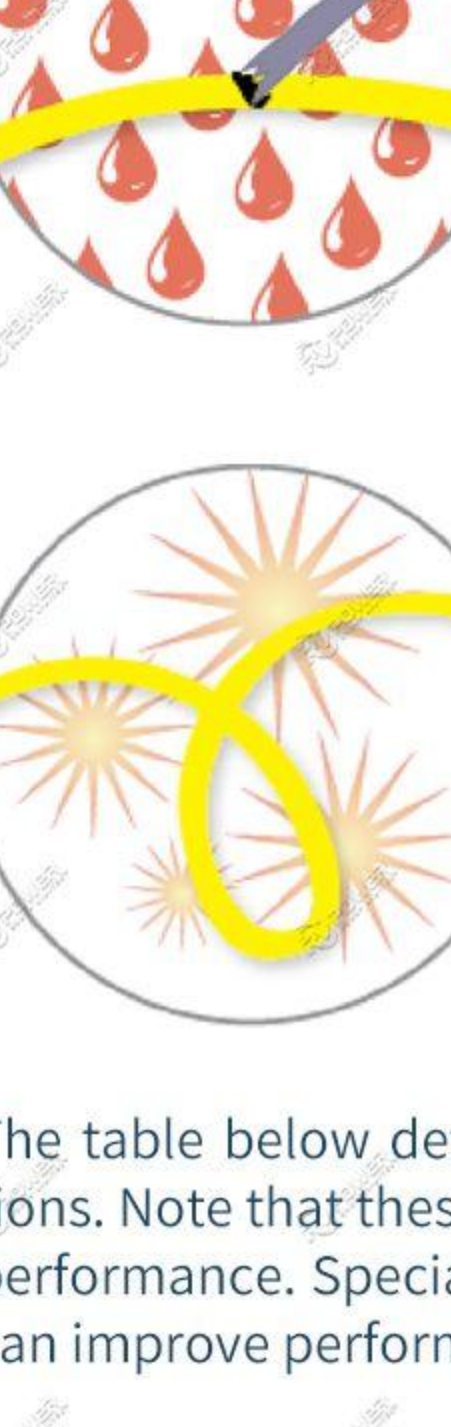
DP 300 WIRE DYNAMIC PERFORMANCE



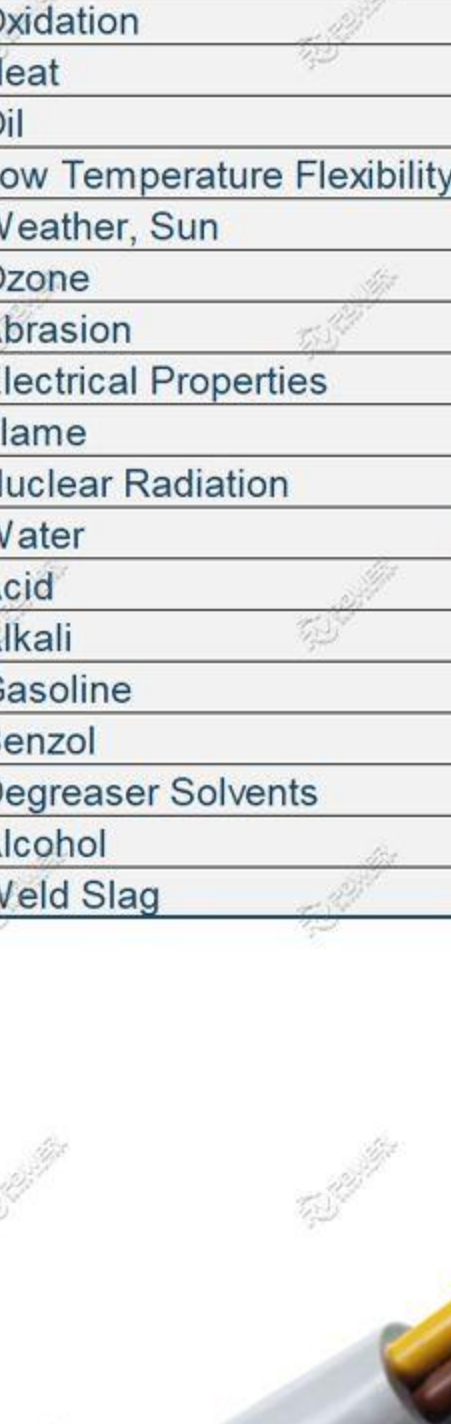
HP 300 WIRE HIGH PERFORMANCE



180 CWIRE SH BASIC PERFORMANCE




DP 300 CWIRE SH DYNAMIC PERFORMANCE




HP 600 CPOWER SH HIGH PERFORMANCE


APPLICATIVE FEATURES



5.000.000 cycles




300 m/min




20 m/s²


APPLICATIVE FEATURES



10.000.000 cycles




600 m/min




60 m/s²


APPLICATIVE FEATURES



5.000.000 cycles




300 m/min




20 m/s²


APPLICATIVE FEATURES



10.000.000 cycles



600 m/min



60 m/s²

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	Extra Flexible Bare Copper Class 6 acc.to IEC 60228
Insulation	Speical -PE
Shield	Tinned Copper Braid O.C. ≥ 85%
Separator	Easy Strip-Away Tape
Outer Sheath	PVC
Colour	Grey RAL 7001

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
≥ 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	Extra Flexible Bare Copper Class 6 acc.to IEC 60228
Insulation	Speical -PE
Shield	Tinned Copper Braid O.C. ≥ 85%
Separator	Easy Strip-Away Tape
Outer Sheath	PUR
Colour	Black RAL 9005

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



SINGLE CORE POWER CABLES







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 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