POWER MULTI-CORE CONTROL 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 °3 + T (4,0 mm2/ 120 mm2)

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 ANDIN-DRECT 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

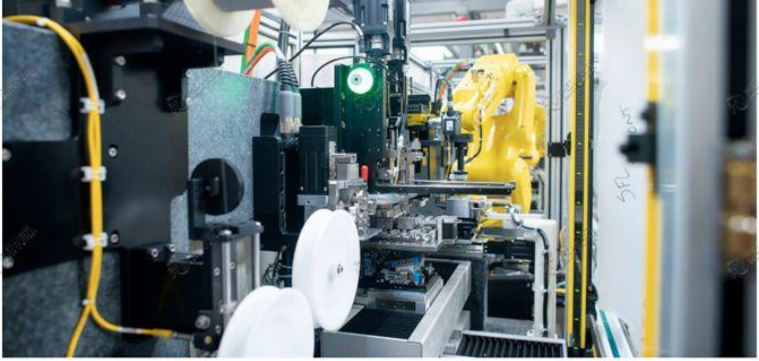
WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPIN-GA'NOTTODO LISTFOR EVERY-OVE OF THEM

TEAM BUILDING

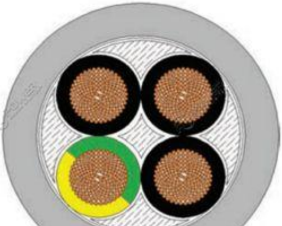
OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

POWER MULTI-CORE CONTROL CABLES

These cables are suitable - due to their construction - to the connection of I/O, motors, and all the electrical parts that require greater copper section.
The dielectric, with low-capacity and high insulation resistance, allows us smaller sizes.

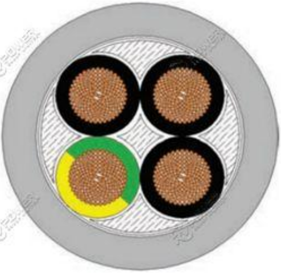


PRODUCT MIX



BP 180POWER

APPLICATIVE FEATURES



DP 300POWER

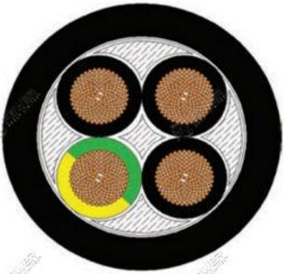
APPLICATIVE FEATURES

5.000.000
cycles

6,5
x O.D.

300
m/min

20
m/s^2



HP 300POWER

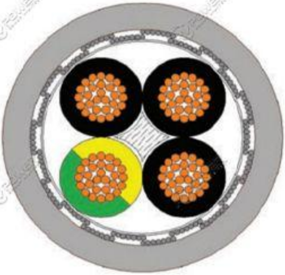
APPLICATIVE FEATURES

10.000.000
cycles

6,5
x O.D.

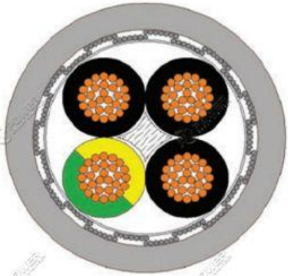
600
m/min

60
m/s^2



APPLICATIVE FEATURES

BP 180 CPOWER SH
BASIC PERFORMANCE



DP 300 CPOWER SH
DYNAMIC PERFORMANCE

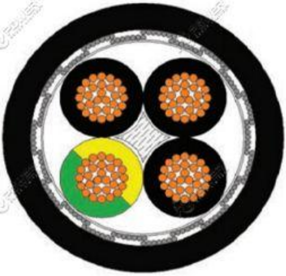
APPLICATIVE FEATURES

5.000.000 cycles

6,5 x O.D.

300 m/min

20 m/s²



HP 600 CPOWER SH
HIGH PERFORMANCE

APPLICATIVE FEATURES

10.000.000 cycles

6,5 x O.D.

600 m/min

60 m/s²

PVC

-

TECHNICAL DATA

V OPERATING VOLTAGE

CONSTRUCTION FEATURES

Conductor	Extra Flexible Bare Copper Class 6 acc.to IEC 60228

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

Insulation	*Special Polypropylene*
Colour code	*Black, numbered, Yellow*
Assembly	*non-woven tape*
Shield	*Tinned Copper Braid O.C. ≥ 85%*
Separator	*Easy Strip-Away Tape*
Outer Sheath	**PVC**
Colour	*Grey RAL 7001*

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

INSULATION RESISTANCE

≥ 1 GΩ x km acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE

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

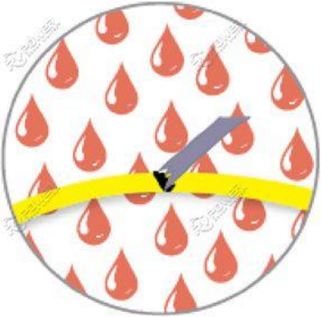
CONSTRUCTION FEATURES

Conductor	*Extra Flexible Bare Copper Class 6 acc.to IEC 60228*
Insulation	*Special Polypropylene*
Colour code	*Black, numbered, Yellow Green*
Assembly	*non-woven tape*
Shield	*Tinned Copper Braid O.C. ≥ 85%*
Separator	*Easy Strip-Away Tape*
Outer Sheath	**PUR**
Colour	*Black RAL 9005*

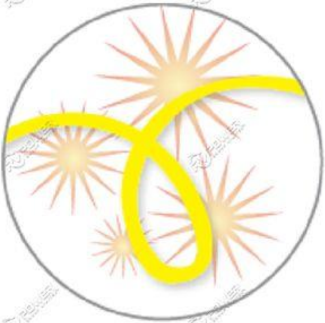
WHICH CABLE JACKET IS BEST FOR YOUR APPLICATION?

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℃.



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	Far-Good	Excellent	Excellent
Flame	Excellent	Excellent	Outstanding
Nuclear Radiation	Far	Excellent	Poor
Water	Good - Excellent	Good - Excellent	Excellent
Acid	Good - Excellent	Excellent	Excellent
Alkali	Good - Excellent	Excellent	Excellent
Gasoline	Poor	Excellent	Excellent
Benzol	Poor - Far	Excellent	Excellent
Degreaser Solvents	Poor - Far	Excellent	Excellent
Alcohol	Good - Excellent	Excellent	Excellent
Weld Slag	Fair	Excellent	Excellent

POWER MULTI-CORE CONTROL 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

10
20
30
40
47.87
mm
inch/mm
OFF
ON
ZERO

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