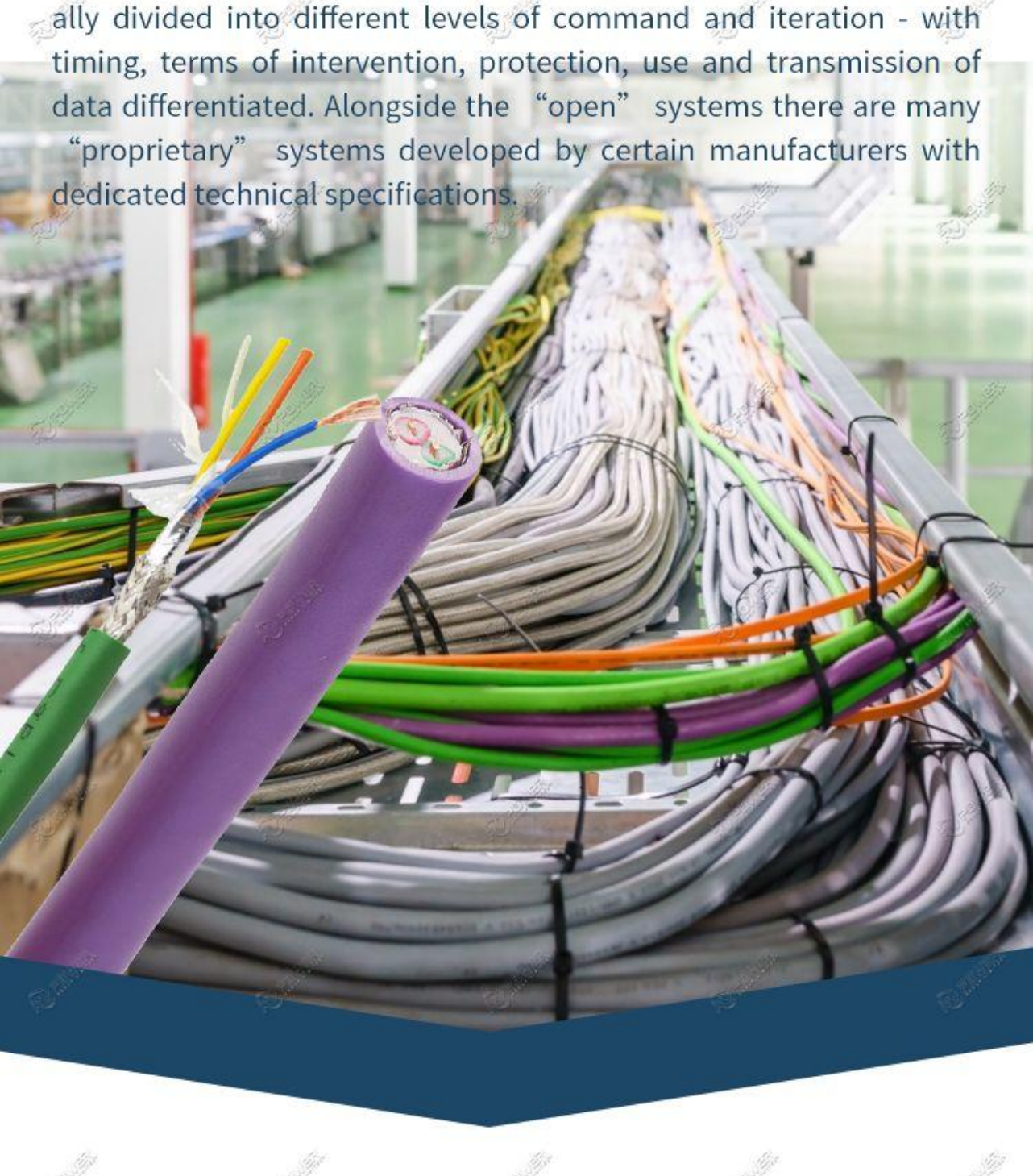
CAN BUS CABLE

STANDARD STATIC AND DYNAMIC APPLICATION CABLES

CAN Bus Cable is a family of products that includes all cables designed to be used in the most common communication systems including sensors and actuators, and / or between automatic control systems (PLC) commonly defined Fieldbus. Fieldbus identifies a distribution system supported by a local area network that allows communication between the various devices connected to it. In the industrial field such a system it is particularly complex, given to the high number of devices that are involved - moreover - using different transmission protocols. To manage such a huge amount the system is usually divided into different levels of command and iteration - with timing, terms of intervention, protection, use and transmission of data differentiated. Alongside the "open" systems there are many "proprietary" systems developed by certain manufacturers with dedicated technical specifications.



OUR ADVANTAGES

EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUESTON 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

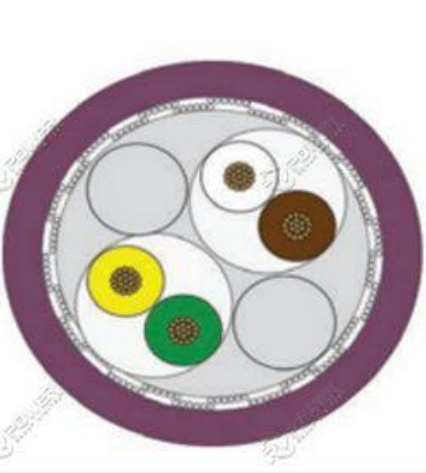
OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

strong
×
durable

CAN BUS CABLE

Manufacturers have thus constituted associations that use their "field-bus" to which the system
must conform to communicate properly. The most common fieldbus systems proposed are: PROFIBUS™, PROFINET™, INDUSTRIAL ETHERNET, CAN Open™, DeviceNet™, USB™.
Cables can be used in adverse environmental conditions, in static and dynamic applications: they are flame resistant, halogen free, high resistance to oils and silicone.

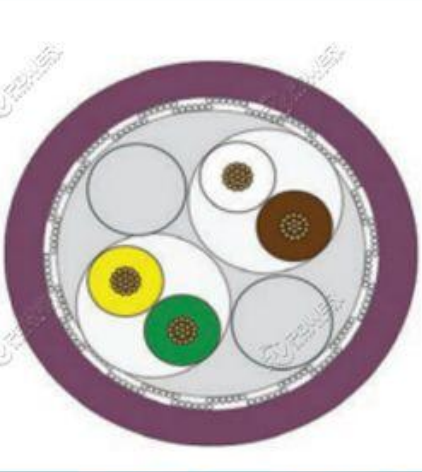
PRODUCT MIX



180BUS-CAN OPEN
BASIC PERFORMANCE

APPLICATIVE FEATURES

10 x O.D.

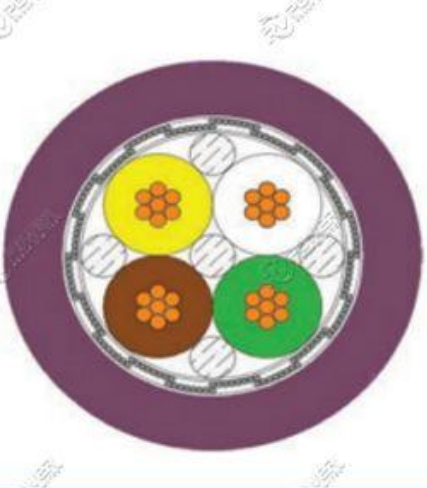


300BUS-CAN OPEN ™
DYNAMIC PERFORMANCE

APPLICATIVE FEATURES

5.000.000 cycles | 6,5 x O.D.

300 m/min | 20 m/s²

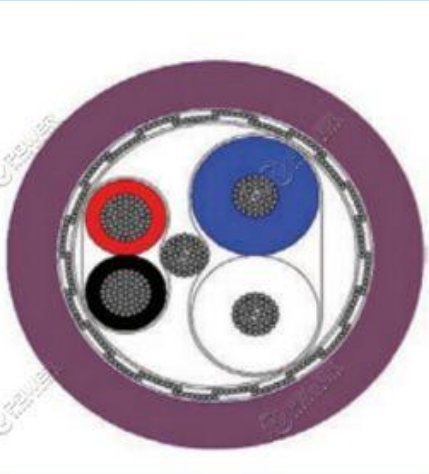


600CAN OPEN ™
HIGH PERFORMANCE

APPLICATIVE FEATURES

10.000.000 cycles | 6,5 x O.D.

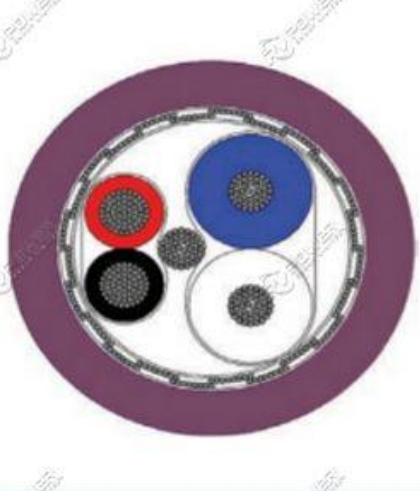
600 m/min | 60 m/s²



180BUS-DEVICENET ™ BP

APPLICATIVE FEATURES

10 x O.D.

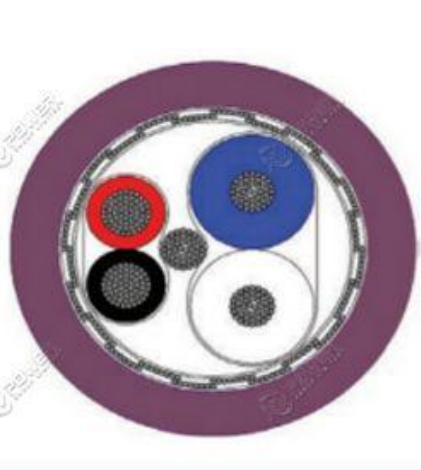


300BUS - DEVICENET ™
DYNAMIC PERFORMANCE

APPLICATIVE FEATURES

5.000.000 cycles | 6,5 x O.D.

300 m/min | 20 m/s²

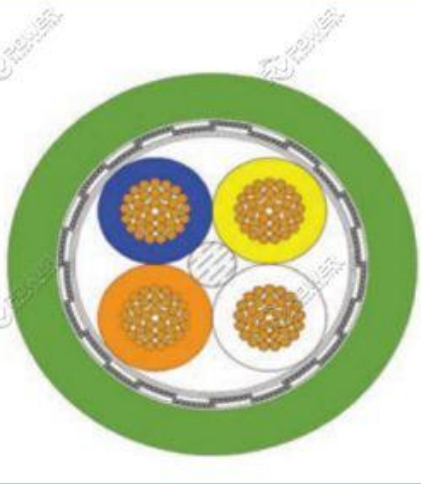


600BUS-DEVICENET ™
HIGH PERFORMANCE

APPLICATIVE FEATURES

10.000.000 cycles | 6,5 x O.D.

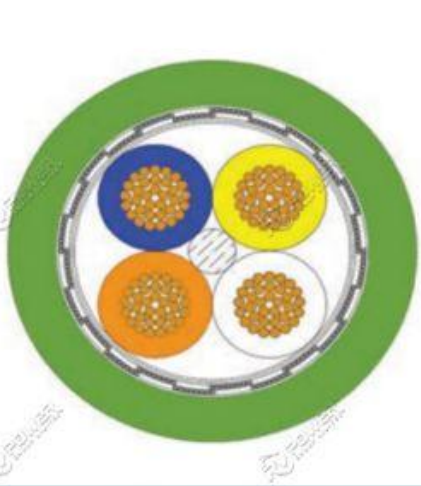
600 m/min | 60 m/s²



180BUS - PROFINET ™
BASIC PERFORMANCE

APPLICATIVE FEATURES

10 x O.D.

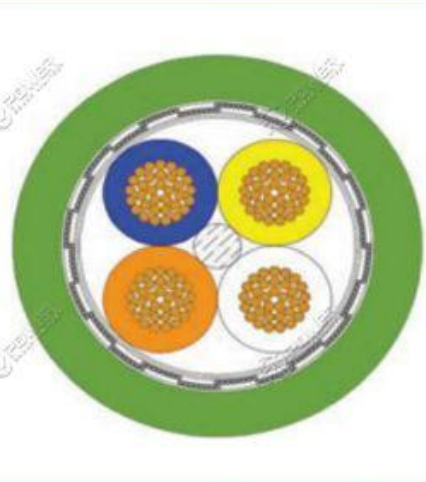


300BUS - PROFINET ™
DYNAMIC PERFORMANCE

APPLICATIVE FEATURES

5.000.000 cycles | 6,5 x O.D.

300 m/min | 20 m/s²

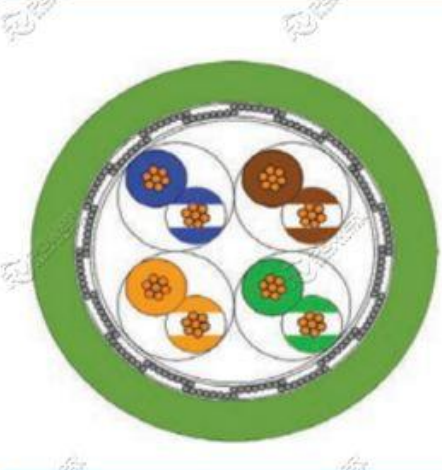


600BUS-DEVICENET ™
HIGH PERFORMANCE

APPLICATIVE FEATURES

10.000.000 cycles | 6,5 x O.D.

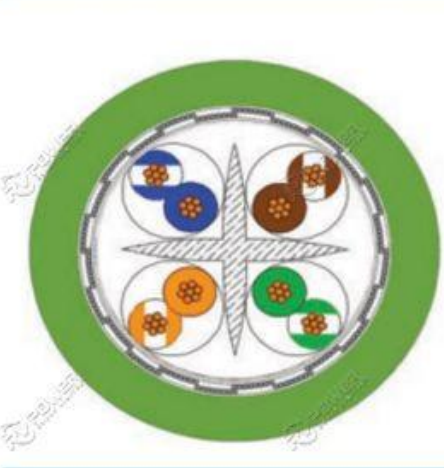
600 m/min | 60 m/s²



CSE 180 BUS-INDUSTRIAL
ETHERNET™ BP CAT 5E

APPLICATIVE FEATURES

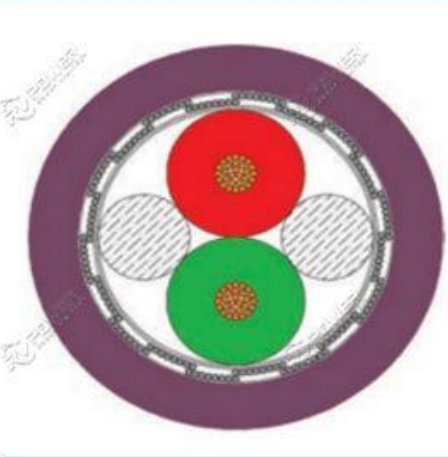
10 x O.D.



CSE 180 BUS-INDUSTRIAL
ETHERNET™ BP CAT 6

APPLICATIVE FEATURES

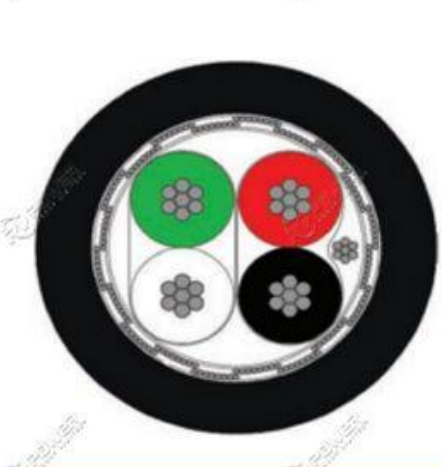
10 x O.D.



PB 180BUS-
PROFIBUS™ BP

APPLICATIVE FEATURES

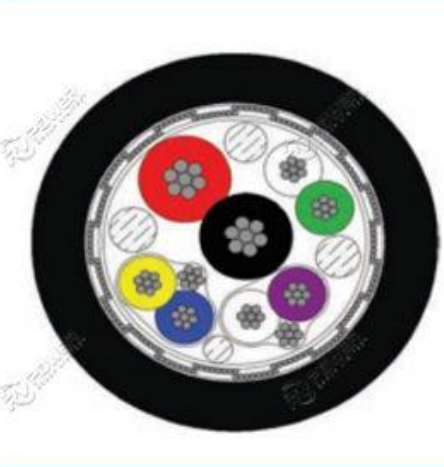
10 x O.D.



UB2 180BUS-USB™
2.0 BASIC PERFORMANCE

APPLICATIVE FEATURES

10 x O.D.



UB3 180BUS-USB™
3 0 BASIC PERFORMANCE

APPLICATIVE FEATURES

10 x O.D.

PVC

-

TECHNICAL DATA

OPERATING VOLTAGE
30 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
≥ 1 GΩ x km acc.to EN 50395 Part 8

ELECTRICAL RESISTANCE

CHARACTERISTIC IMPEDANCE
120 Ω

NOMINAL CAPACITANCE
See Table

CONSTRUCTION FEATURES

Conductor	Flexible Bare Copper
Insulation	Foam Polyethylene
Shield	Tinned Copper Braid O.C. ≥ 85%
Outer Sheath	PVC
Colour	Violet RAL 4001

ATTENUATION

	0.50 mm²	0.34 mm²	0.25 mm²
MHz	dB/100 m	dB/100 m	dB/100 m
1.0	≤ 1,3	≤ 1,7	≤ 1,9
4,0	≤ 2,8	≤ 3,1	≤ 3,9
10,0	≤ 3,8	≤ 5,2	≤ 6,5
16,0	≤ 4,5	≤ 5,9	≤ 8,4
20,0	≤ 6,2	≤ 7,1	≤ 9,5

MOTIONCABLES CODES	n x mm²	Electrical Resistance	Capacitance	Ø mm	Cu kg/km	Bending Rad. mm
24Q01UR-VI	(1 x 4 x 0.25)	≤ 85,0 Ω/km	44 hF/km	6,5	28	45
24P02UR-VI	(2 x 2 x 0.25)	≤ 85,0 Ω/km	44 hF/km	7,6	35	50
22Q01UR-VI	(1 x 4 x 0.34)	≤ 59,0 Ω/km	42 hF/km	6,7	32	45
	(1 x 2 x 0.50)	≤ 39,0 Ω/km	42 hF/km	7,5	42	50

OIL RESISTANT
VDE 0472 Sect. 803 B, UL Oil Res. I, CNOMO E.03.40.150.N

FLAME RESISTANT
IEC 60332-1-2

FLEXIBLE
EN 50289-3-9

PUR

-

TECHNICAL DATA

OPERATING VOLTAGE
300 V

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

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

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

ELECTRICAL RESISTANCE
See Table

CHARACTERISTIC IMPEDANCE
150 Ω

NOMINAL CAPACITANCE
See Table

CONSTRUCTION FEATURES

Conductor	Extra Flexible Bare Copper
Insulation	Foam Skin
Shield	AL/PET Tape + Tinned Copper Braid O.C. ≥ 85%
Outer Sheath	PUR
Colour	Violet RAL 4001

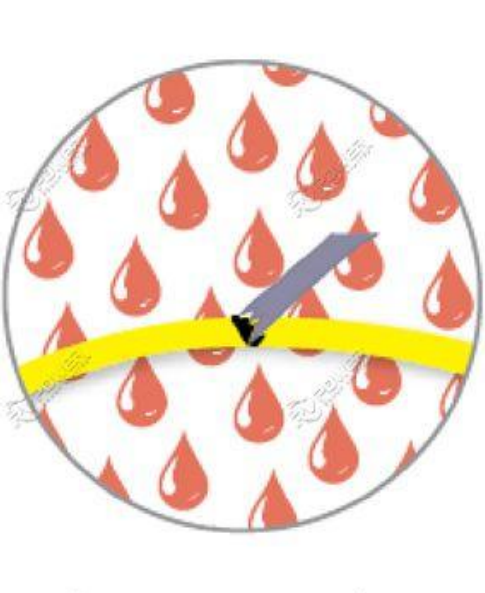
ATTENUATION

	22 AWG	24 AWG
kHz	dB/100 m	dB/100 m
9,60	≤ 0,22	≤ 0,30
38,4	≤ 0,36	≤ 0.50
4000	≤ 2,00	≤ 2,40
16000	≤ 4,00	≤ 4,80

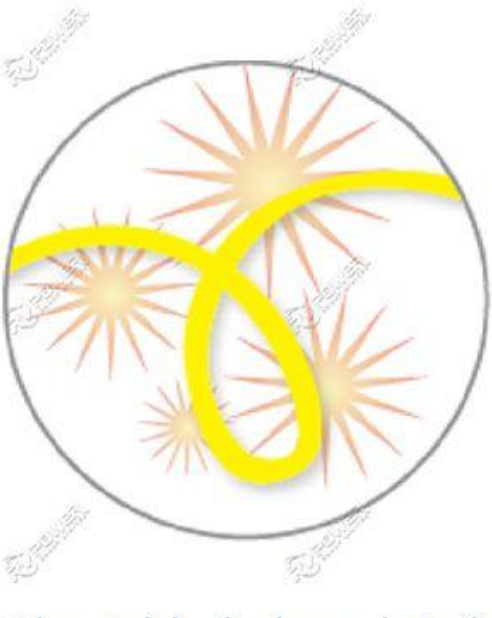
WHICH CABLE JACKET IS BEST FOR YOUR APPLICATION?

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℃.



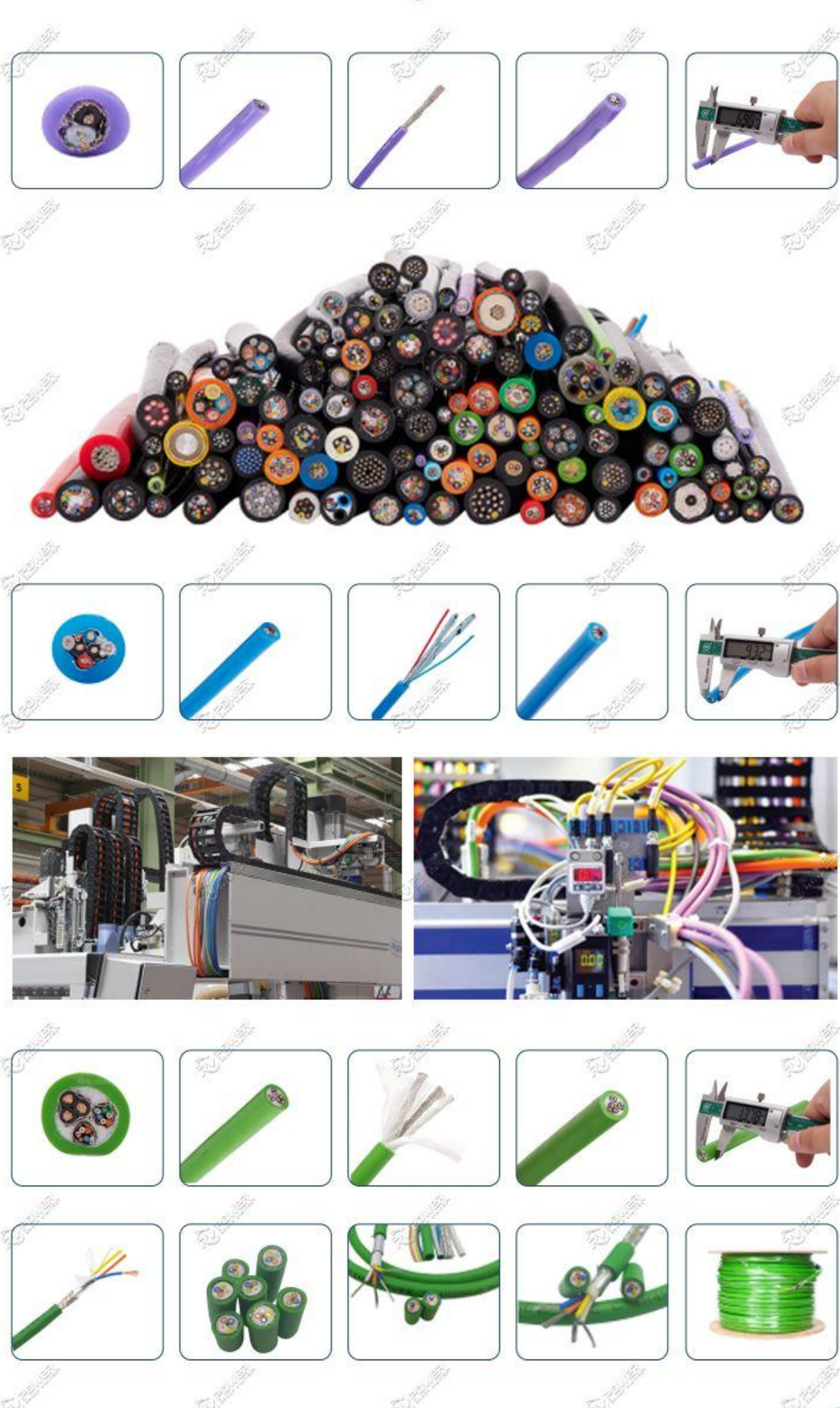
TPE is flexible, recyclable and has excellent cold temperature characteristics, -50…125⊠C. This cable is resistant against aging in the sunlight, UV and ozone. TPE has a high-flex rating, typically 10 million.

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

CAN BUS 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
- FLAE RESISTANT
- HALOGEN FREE
- COLD RESISTANT
- ABRASION RESISTANT
- OZONE RESISTANT
- UV RESISTANT
- MICROBE RESISTANT
- MUD RESISTANT
- WATER RESISTANT