

## Standard cable qualities

### Cable qualities

#### ■ P00 | S 1118 | S 2010 = PVC

All PVC-cable, adapted for average mechanical stresses in the area of packing machines as well as assembly- and production-lines. Good resistance against acids and lye and therefore predestined for use in the food- and beverage-industry. Restricted abrasion behaviour and limited oil- and chemicals-resistance are provided.

#### ■ XOR = PVC | irradiated

The irradiated outer jacket of this all-PVC-cable provides for higher inherent stability at higher temperatures, increased mechanical strength, improved chemical resistance as well as better abrasion behaviour compared with the normal PVC cable. Predestined for use in welding areas.

#### ■ S 90 = PUR | PVC

All-round cable with PUR-outer jacket and PVC-wire insulation adapted for use in the areas of machine tool, assembly- and production-lines as well as in metal-cutting production. In addition to its good oil- and chemicals-resistance, this cable has a high abrasion strength. Use in a drag-chain is possible.

#### ■ S 74 = PUR, PVC- and halogenfree and highly flexible

Specially developed and permanently flexible control-cable for use in industrial robots, rotary- and swing-tables as well as machine-control cables for extreme conditions. This cable is used wherever bending and torsion strains occur simultaneously and longer service periods are required. The PUR outer jacket provides for a very good resistance against oils, lubricants and coolants and other aggressive agents. This cable can be used at permanent temperatures up to +105°C.

#### ■ S 366 | S 1117 | S 2020 = PUR, PVC- and halogenfree

Flexible, PVC- and halogen-free control-cable with PUR outer jacket and polypropylene wire-insulation. The temperature resistance ranges from -40°C to +90°C. Oil resistance and non-inflammability are according to VDE 0472. The drag-chain application is possible at a bending radius of min.10xcable diameter. This cable is very well adapted for the flexible use in the area of robotics, machine tool and metal-cutting production.

#### ■ S 398 = PUR, irradiated, PVC- and halogenfree, highly flexible

The irradiated PUR outer jacket obviously improves the PUR-typical properties. The mechanical strength as well as the abrasion behaviour are upgraded and resistance against weld-sparks is achieved as well. Adapted for use in the area of robotics, special weld-robots, machine tool, assembly lines and metal-cutting production. This bending- and torsion-resistant cable can be used at permanent temperatures up to +105°C.

## Application areas of cable qualities

All data in this matrix are based on experience and only serve as basic orientation referring to recommended business sectors or applications.

Cable Quality	Packing and handling	Assembly- and production-lines	Welding applications	Machine-tool and metal-cuttingproduction	Drag-chain applications *	Industrial robots, rotating- and swing tables	General mechanical engineering	Food industry
<b>P00   S1118   S2010 = PVC</b> for average mechanical stresses, limited abrasion behaviour, conditional oil resistance, conditional resistance to chemicals	■	■						■
<b>XOR = PVC   irradiated</b> increased form stability at higher temperatures (interlacing of outer jacket), increased mechanical strength, improved chemical resistance, better abrasion behaviour (compared with normal PVC-cable)			■					
<b>S74 = PUR, PVC- and halogenfree and highly flexible</b> polyester insulation of inner wires, non-inflammability VDE 0472, section 804, temperature-resistant -40°C to + 105°C, resistant to hydrolysis, permanently flexible control cable, use at simultaneous bending and torsion-stresses, longer down-times, very good resistance to oils, lubricants and coolants, very good resistance to aggressive agents					■	■		
<b>S90 = PUR   PVC</b> good oil-resistance, good resistance to chemicals, high abrasion strength			■	■	■	■		■
<b>S366   S1117   S2020 = PUR, PVC- and halogenfree</b> flexible PUR- outer jacket, polypropylene wire insulation, temperature-resistance -40°C to +90°C, oil-resistant according VDE 0472, section 803, non-inflammability VDE 0472, section 804			■	■	■	■		■
<b>S398 = PUR, irradiated, PVC- and halogenfree, highly flexible</b> interlaced PUR-outer jacket, temperature-resistant -40°C to +90°C, resistant to welding spatter, polyurethane halogen-free, resistant to microbes, resistant to hydrolysis, oil-resistant according to VDE 0472, section 803, non-inflammability VDE 0472, section 804			■	■	■	■		

\* bending radius  
min. 10x cable diameter