

### ■ Applications of PVC control and connection cables

PVC control and connection cables are particularly suitable for control devices, e.g. on machine tools, conveyor or assembly lines, transporting equipment, production lines and construction of industrial plants. The cables can be moved after installation, especially for alignment and adjustment as well as inspection of machines, provided that the cables are not mechanically overloaded. Wherever a certain protection against electromagnetic interferences is requested, cables with a tinned copper shield can be used. These cables are not to be used for outdoor installation.

#### Exemplary applications:

CC 500 CC 600 CC 600 MTW	Construction of service cabinets and control devices, electrical technology, installation and packaging technologies, construction of textile machines, wood working machines and machine tools
CC 500 B	Construction of service cabinets, control devices and machine tools, data processing, packaging machine, textile and wood working machine construction and in cleaning appliances
CC 500 CY (TR) CC 600 CY CC 600 MTW CY	Car manufacturing industry, automation technologies, press and form engineering, machine tools, textile, printing and paper machine construction, iron and steel industries
CC 500 SY (TR)	Packaging and wood working machine construction, press engineering, energy technologies, plastics processing and textile machine construction, electrical technology, beverage racks
CC 600 World CC 600 World CY CC 600 T CC 600 CY T	Machine tool and packaging machine construction, material handling and automation technologies, car manufacturing industry, CNC-machines

### ■ Applications of PUR/TPE control cables

PUR/TPE control and connection cables are particularly suitable for control devices, e.g. on machine tools, conveyor or assembly lines, transporting equipment and production lines. They can be used at high mechanical loads for fixed installation or flexible applications with free movement, without tensile load and mechanically guided movement in dry, damp and wet rooms. These cables are used wherever abrasion resistance, notch resistance and oil and chemical resistance are strongly requested.

#### Exemplary applications:

CC 600 P CC 600 CP CC 640 P CC 640 CP CC 550 P CC 550 CP	PUR/TPE outer jacket is very well suited for: machine and industrial plant construction, material handling techniques (e.g. working platforms and transportation systems), car manufacturing industry, handling and automation technologies, iron, steel and chemical industries
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### ■ Application of control cables with extra chemical resistance

These cables are multi-conductor 600 V control cables with UL recognition, chemical and oil resistant. The reduced outer diameter permits easy handling and installation in confined areas.

#### Exemplary applications:

CRX 600 CRX 600 C	Industrial painting machinery, water treatment facilities, chemical processing, harsh environments and areas utilizing various cleaning solvents. Control and power supply cables with extra chemical resistance, such as MEK, Acetone, Xylene, Turpentine
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# Flexible Control Cables

## Selection Table



A  
4

		Cable Type																							
		A/5	A/6	A/7	A/8	A/9	A/10	A/11	A/12	A/13	A/14	A/15	A/16	A/17	A/18	A/19	A/20	A/21	A/22	A/23	A/24				
Basic construction	Numbered conductors	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Colored conductors									●															
	Tinned Copper Shielding		●		●		●			●															
	Steel wire protection												●												
	Inner jacket		●								●			●	●	3									
	Transparent outer jacket												●	●											
Temperature range fixed installation*	+105°C																								
	+90°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	+70°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	-25°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	-30°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	-40°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Voltage	Nominal voltage Uo/U 300/500 V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Nominal voltage Uo/U 450/750 V									●	2														
	Voltage UL 600 V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Voltage cUL 600 V					●	●																		
	Voltage CSA 600 V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Voltage CSA 1000 V					●	●																		
	Testing voltage 2000 V			●	●									●	●										
	Testing voltage 3000 V	●	●						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Testing voltage 4000 V					●	●																		
Standards and approvals	Halogen-free acc. to IEC 60754-1 + VDE 0482-754-1																								
	Fire performance: Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	Fire performance: UL VW-1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Fire performance: cUL FT1, FT2																								
	Fire performance: CSA FT1, FT2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	VDE-Reg. no.	●	●																						
	DIN VDE standardized									●	●														
	<HAR> standardized									●	●														
	UL recognition	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	cUL recognition																								
	(UL) listed					●	●																		
CSA approved	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Characteristics	Oil resistance acc. to EN 50363-4-1 + VDE 0207-363-4-1	●	●			●	●	●	●																
	Oil resistance acc. to EN 50363-10-2 + VDE 0207-363-10-2																●	●	●	●					
	Oil resistance acc. to internal standard			●	●							●	●	●	●										
	Oil 60°C	●	●			●	●															●	●		
	Oil rating 60°C acc. to UL 1581														●	●									
	Fuel Oil acc. to CSA-C 22.2 No. 210	●	●			●	●																		
	Good chemical resistance														●	●	●	●	●	●	●	●	●		
	High mechanical loading capacity	●	●											●	●	●	●	●	●	●	●	●	●		
	NFPA 79 for industrial machinery					●	●																		
Impact and Crushing test acc. to UL 1277					●	●																			



1 from 0.50 mm<sup>2</sup> to 1.50 mm<sup>2</sup>  
 2 from 2.50 mm<sup>2</sup> to 50.0 mm<sup>2</sup>  
 3 from 4.00 mm<sup>2</sup>

\*The temperature range for flexible application is mentioned on the corresponding catalog page