

Applications

■ 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 screen 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 index

		Cable type	CC 600	CC 600 CY	CC 600 T	CC 600 CY T	CC 600 MTW	CC 600 MTW CY	CC 600 World	CC 600 World CY	CC 500 B	CC 500	CC 500 CY (TR)	CC 500 SY (TR)	CC 600 P	CC 600 CP	CC 640 P	CC 640 CP	CC 550 P	CC 550 CP	CRX 600	CRX 600 C	
Basic construction	Numbered conductors		x	x	x	x	x	x	x	x		x	x	x	x			x	x	x	x		
	Colored conductors										x					x	x						
	Tinned Copper screen			x		x		x		x			x		x		x			x		x	
	Steel wire protection													x									
	Inner jacket									x			x	above 12 AWG									
	Transparent outer jacket												x	x									
Temperature range static*	+ 105°C																						
	+ 90°C																						
	+ 80°C																						
	+ 70°C																						
	- 25°C																						
	- 30°C																						
	- 40°C																						
Voltage	Voltage UL-AWM 600 V / CSA 1000 V						x	x															
	Voltage UL 600 V / cUL 1000 V																					x	x
	Nominal voltage UL/CSA 600 V		x	x	x	x			x	x					x	x	x	x					
	Nominal voltage Uo/U 300/500 V		x	x	x	x			x	x	20-16 AWG	x	x	x	x	x	x	x	x			x	x
	Nominal voltage Uo/U 450/750 V										14-1 AWG												
	Testing voltage cond./cond. 2000 V																					x	x
	Testing voltage cond./cond. 3000 V		x	x	x	x			x	x	x	x	x	x	x	x	x	x	x				
	Testing voltage cond./cond. 4000 V						x	x															
Testing voltage cond./screen 1000 V			x		x				x						x		x				x	x	
Testing voltage cond./screen 2000 V							x																
Standards and approvals	Burning characteristics acc. to IEC 60332-1-2 and EN 60332-1-2		x	x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Burning characteristics acc. to UL VW-1 and acc. to CSA FT1 and FT2		x	x	x	x			x	x					x	x	x	x					
	Burning characteristics acc. to CSA FT1 and FT2						x	x															
	Burning characteristics acc. to UL VW-1, cUL FT1 FT2																					x	x
	VDE-Reg. no.		x	x								x	x	x									
	UL recognized		x	x	x	x	x	x	x	x					x	x	x	x				x	x
	cUL recognized																					x	x
	(UL) listed						x	x															
CSA approved		x	x	x	x	x	x	x	x					x	x	x	x						
Characteristics	Oil resistance acc. to internal standard				x	x					x	x	x	x									
	Oil resistance acc. to DIN VDE		x	x			x	x	x	x							x	x	x	x			
	Oil 60°C																					x	x
	Oil 60°C acc. to UL		x			x	x								x	x							
	Fuel Oil acc. to CSA		x			x	x																
	Good chemical resistance		x						x	x					x	x				x	x	x	x
	Impact and crushing test						x	x															
	Machinery area						x	x															
High mechanical loading capacity				x	x							x	x	x	x	x	x						
Weather resistance																	x	x	x	x			

Temperature range:



*The temperature range for flexing is mentioned on the particular catalogue page