

Applications

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■ 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 copper screen can be used. These cables are not to be used for outdoor installation.

Exemplary applications:

CC 500 CC 600, blue CC 600 MTW	Construction of service cabinets and control devices, electrical technology, installation and packaging techniques, 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 techniques, plastics processing and textile machine construction, electrical technology, beverage racks
CC 600 World CC 600 M CY CC 600 T CC 600 CYT	Machine tool and packaging machine construction, material handling and automation technologies, car manufacturing industry, CNC-machines

■ Applications of PUR control cables

PUR 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 load for fixed installation or flexible application with free movement, without tensile load and mechanically guided movement in dry, damp and wet rooms. These cables are used wherever abrasion resistance, notch toughness, oil and chemical resistance are strongly requested.

Exemplary applications:

CC 500 P CC 500 CP CC 540 P CC 540 CP CC 600 P, blue, red CC 600 CP CC 640 P CC 640 CP	Due to the PUR outer sheath very well suitable 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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FLEXIBLE CONTROL CABLES

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		Cable type							
		CC 600 / blue	CC 600 CY	CC 600 T	CC 600 CYT	CC 600 MTW	CC 600 MTW CY	CC 600 World	CC 600 M CY
Basic construction	Numbered conductors	x	x	x	x	x	x	x	x
	Colored conductors								
	Copper screen		x		x		x		x
	Steel wire protection								
	Inner jacket								x
	Transparent outer jacket								
Temperature range static*	+ 105 °C								
	+ 90 °C								
	+ 80 °C								
	+ 70 °C								
	- 25 °C								
	- 40 °C								
Voltage	Voltage UL-AWM 600 V / CSA 1000 V					x	x		
	Nominal voltage UL/CSA: 600 V	x	x	x	x			x	x
	Nominal voltage Uo/U 300/500 V	x	x	x	x			x	x
	Nominal voltage Uo/U 450/750 V								
	Testing voltage cond./cond. 3000 V	x	x	x	x			x	x
	Testing voltage cond./cond. 4000 V					x	x		
	Testing voltage cond./screen 1000 V				x				x
	Testing voltage cond./screen 2000 V		x				x		
Standards and approvals	Burning characteristics acc. to IEC 60332-1-2 and EN 60332-1-2	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
	Burning characteristics: acc. to CSA FT1 and FT2					x	x		
	VDE-Reg. no.	x	x						
	UL approved	x	x	x	x	x	x	x	x
	(UL) approved					x	x		
	CSA approved	x	x	x	x	x	x	x	x
CCC approved							x	x	
Characteristics	Oil resistance acc. to internal standard			x	x				
	Oil resistance acc. to DIN VDE	x	x			x	x	x	x
	Oil 60 °C acc. to UL	x				x	x		
	Fuel Oil acc. to CSA	x				x	x		
	Good chemical resistance	x						x	x
	Impact and Crushing test	x				x	x		
	Machinery Area					x	x		
	High mechanical loading capacity			x	x				
Weather resistance									

Temperature range:



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

FLEXIBLE CONTROL CABLES

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		Cable type											
		CC 500 B	CC 500	CC 500 CY (TR)	CC 500 SY (TR)	CC 600 P / blue / red	CC 600 CP	CC 500 P	CC 500 CP	CC 540 P	CC 540 CP	CC 640 P	CC 640 CP
Basic construction	Numbered conductors		x	x	x	x	x	x	x				
	Colored conductors	x								x	x	x	x
	Copper screen			x			x		x		x		x
	Steel wire protection					x							
	Inner jacket			x		above 12 AWG							
	Transparent outer jacket			x	x								
Temperature range static*	+ 105 °C												
	+ 90 °C												
	+ 80 °C												
	+ 70 °C												
	- 25 °C												
	- 40 °C												
Voltage	Voltage UL-AWM 600 V / CSA 1000 V												
	Nominal voltage UL/CSA: 600 V					x	x					x	x
	Nominal voltage Uo/U 300/500 V	20-16 AWG	x	x	x	x	x	x	x	19-18 AWG	19-18 AWG	x	x
	Nominal voltage Uo/U 450/750 V	14-1 AWG								18-6 AWG	18-6 AWG		
	Testing voltage cond./cond. 3000 V	x	x	x	x	x	x	x	x	x	x	x	x
	Testing voltage cond./cond. 4000 V												
	Testing voltage cond./screen 1000 V			x			x		x		x		x
Testing voltage cond./screen 2000 V													
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
	Burning characteristics: acc. to UL VW-1 and acc. to CSA FT1 and FT2					x	x					x	x
	Burning characteristics: acc. to CSA FT1 and FT2												
	VDE-Reg. no.		x	x	x								
	UL approved					x	x					x	x
	(UL) approved												
	CSA approved					x	x					x	x
CCC approved													
Characteristics	Oil resistance acc. to internal standard	x	x	x	x								
	Oil resistance acc. to DIN VDE							x	x	x	x	x	x
	Oil 60 °C acc. to UL					x	x						
	Fuel Oil acc. to CSA												
	Good chemical resistance					x	x	x	x	x	x		
	Impact and Crushing test												
	Machinery Area												
	High mechanical loading capacity			x	x	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