

B R	Mechanical Equipment Standards	Production Engineering Dept. 3 005
Electric Equipment		0 0 3
		2 8 / 3 1

13. Wiring Work

13-1. Electric Wiring

- (1) In principle, electric wiring used for mechanical equipment shall be vinyl simplex code for fixtures (VSF), and have proper thickness according to load current.

Note that power circuit shall be 2.0mm² or more, while control circuit to be 1.25mm² or more.

(Wiring within PC to be 0.5mm² or more.)

Wiring for electronic devices shall be determined through discussions.

- (2) Refer to the table 12-1 for the color classification of electric wires.

12-1. Color Classifications of Electric Wires

Circuit		Color
AC power circuit	R phase	Black
	S phase	Red
	T phase	White
DC power circuit		Blue
AC control circuit	General	Yellow
	Coil-side common wire	Red
DC control circuit		Blue
Earth circuit		Green
Interlock cable		Red

※ Interlock cable: used for input to / output from other devices.

(3) Usage Scope of Multi-core Cable

Multi-core cable can be used for long distance wiring such as rack and duct. Wiring must have numbers attached.

13-2. Metal Duct

- (1) 1.6mm or thicker stiff metal plate shall be used for metal duct. If the sectional area of duct is small allowing the duct structure to be stiff enough, thickness can be reduced to 1.2mm.
- (2) Extra holes, excluding those required for wiring, shall not be made on a duct.
- (3) Duct shall not have any protrusions that may damage covering.
- (4) Duct cover will be placed over, as overlapping, up to the side of the body. It shall be closed tightly by using appropriate tightening mechanism with packing.