POWER SUPPLY CABLES AND ACCESSORIES

Power supply cable

Wires × cross-sectional area	4C × 2 □	4C × 3.5 □	6C × 2 □	8C × 2 □	4C × 5.5 □	4C × 8 □	4C × 14 □	4C × 22 □	4C × 30 □
Cable diameter	ϕ12.3	ϕ14.2	ϕ14.5	ϕ16.8	ϕ17.5	ϕ19.5	ϕ24	ϕ30	ϕ36
Part No.	CTC4C × 2	CTC4C × 3.5	CTC6C × 2	CTC8C × 2	CTC4C × 5.5	CTC4C × 8	CTC4C × 14	CTC4C × 22	CTC4C × 30
Type	Vinyl power supply cable (VCT)				Rubber power supply cable (2CT)				

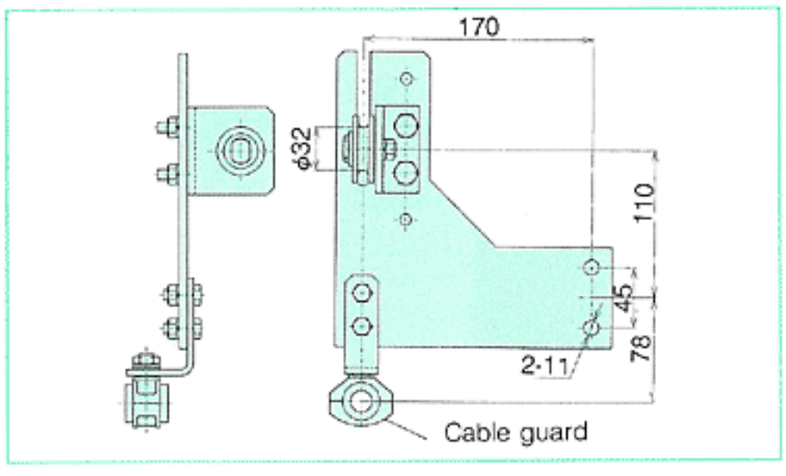
Junction cable for electric chain hoist (ERM) and rope hoist

This cable supplies power from the crane control box to the electric chain hoist. It is conveniently used to compound cable for power supply and operation circuits.

Wires × cross-sectional area	7C composite cable (4C × 3.5 □ + 3C × 0.75 □)	8C composite cable (4C × 3.5 □ + 4C × 0.75 □)	9C composite cable (4C × 3.5 □ + 5C × 0.75 □)
Cable diameter	ϕ17.9	ϕ19.4	ϕ22.3
Part No.	CTC4C + 3C	CTC4C + 4C	CTC4C + 5C
Type	Vinyl power supply cable (VCT)		

Wire guide L

This guide is used to power supply cable system (for low-head end carriage).

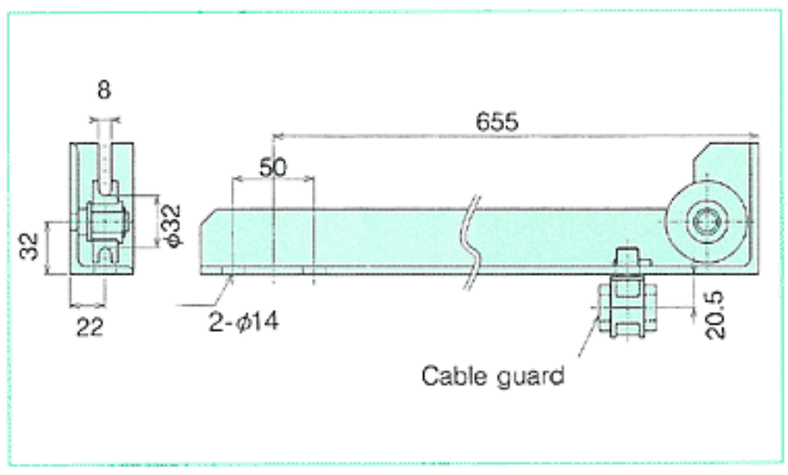


Type	Code	Cable size		Cable guard
		Outer diameter	Wires × cross-sectional area	
WGL16	N4QL350E	ϕ14.2	4C × 3.5 □	CG16
WGL19	—	*ϕ17.0 to ϕ19.0	4C × 5.5 □ 4C × 8 □	CG19

* Option

Wire guide O

This guide is used to power supply cable system (for both overhead and low-head types).

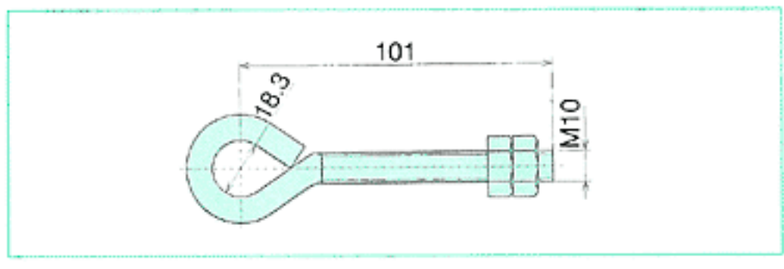


Type	Code	Cable size		Cable guard
		Outer diameter	Wires × cross-sectional area	
WGO16	N4QO350E	ϕ14.2	4C × 3.5 □	CG16
WGO19	—	*ϕ17.0 to ϕ19.5	4C × 5.5 □ 4C × 8 □	CG19

* Option

Wire bolt assembly

This bolt is used to fix messenger wires.



Type	Code	With ϕ4 to ϕ6 wire clip
WB	T1AS000	

Allowable length (m) of power supply cable

IA	Cross-Sectional area (mm²)						
	2 □	3.5 □	5.5 □	8 □	14 □	22 □	30 □
10	25	45	71	103			
15	17	30	47	69	121		
20	12	22	35	51	90		
25		18	28	41	72	114	
30			23	34	60	95	
35			20	29	51	81	111
40				25	45	71	97
45				23	40	63	86
50					36	57	77
60					30	47	64
70						40	55
80						35	48
90							43
100							38

How to identify allowable power supply cable

●Internal wiring specification JEAC8001-1977
120-1 Voltage drop

The voltage drop in low voltage lines is, as a rule, to be kept within 2% of the standard voltage of the trunk line and the branch circuit.

$$\text{Allowable length(m)} = \frac{1000}{30.8} \times \frac{\text{Cross-sectional area of single wire (mm}^2\text{)} \times \text{rated voltage} \times 0.02}{I_A}$$

I_A : Electric chain hoist or rope hoist
Rated current + Rated current of travel motor × 2