

High Temperature and Fire Proof Power Cable

◆ Standard

High temperature and fire proof cable is manufactured according to Q/320412HLC003.

◆ Application

It is used for AC rated voltage 0.6/1kV and below, high temperature environment for signal detection and power transmission. Especially for fire safety and security systems, control of protection circuit and power transmission line.

◆ Product Property

- (1) Operating temperature : Long term use 200℃, short time use 1000℃
- (2) Rated voltage U_0/U : 450/750V、600/1000V
- (3) Min ambient temp: fixed installation -60℃, non-fixed installation -20℃
- (4) Min bending radius: non-armored cable ≥ 10 times of the cable outer diameter; armored cable ≥ 12 times of the cable outer dia.

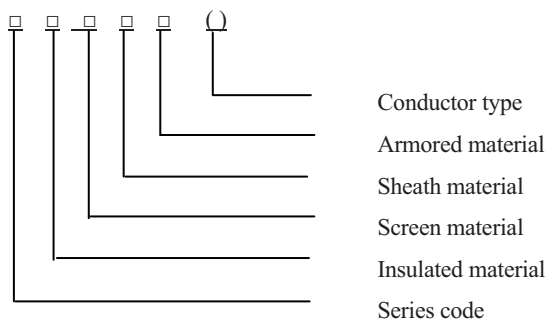
◆ Code and Explanation

1. Code Explanation (Table 1)

Table 1

Table 1		
Item	Code	Explanation
Series code	HCT _R F _P	Fire proof cable
Insulated material	F	Fire proof insulating material
Screen material	/	No shield (to be omitted)
	P	Copper wire braid
	P ₁	Tined copper wire braid
Sheath material	F	(F ₄₆)F ₄₆
Armor material	22	Steel tape armored
	31	Steel wire braid armored
	32	Steel wire armored
Conductor type (Filled in the brackets)	A	Solid conductor
	B	Stranded conductor
	R	Multi-stranded conductor

2. Type explanation



Example:

e.g. 1. Four cores 1.0mm² type solid conductor high temperature resistant fire proof cable is described as:

HCT_RFP-FF 4×2.5(A)

e.g. 2. Five cores 120mm² Copper conductor steel tape armored Tinned copper wire shield heat resistance fire proof cable is described as: HCT_RFP-FP₁₋₂₂ 5×120mm²

◆ Technical Data (see table 1)

Table 2

Item	Unit	Technical performances															
D.C. resistance of Conductor (20℃)≤	Ωkm	Sectionmm ²	05	075	10	15	25	4	6	10	16	25	35	50	70	95	120
		Resistance	360	245	181	121	741	46	308	183	1.15	0.727	0.524	0.387	0.268	0.193	0.153
Test voltage	kV/5min	450/750V Test Voltage2.5kv								600/1000V Test Voltaage3.5kv							
Insulated resistance ≥	MΩkm	100															
Fire-resistance feature		Category A(Flame temperature 1000℃ 90 minutes test fuse connection)															

Table 3

Type	Nominal cross section mm ²															
	0.5	0.75	1.0	1.5	2.5	4	6	10	16	25	35	50	70	95	120	
	Core number															
HCT _R FPFF	2~61					2~10			1~5							
HCT _R FPFF ₂₂	-	4~61				2~10			2~5							
HCT _R FPFF ₃₁	4~61					4~10			3~5							
HCT _R FPFF ₃₂	-		4~61			4~10			3~5							
HCT _R FPFFP ₁	2~61					2~10			1~5							
HCT _R FPFFP ₋₂₂	-	4~61				2~10			2~5							
HCT _R FPFFP ₋₃₁	4~61					4~10			3~5							
HCT _R FPFFP ₋₃₂	-		4~61			4~10			3~5							

◆ Type and Name

Table 4

Type	Name
HCT _R FPFF	Copper conductor fire proof insulated layer high temperature resistant fire proof cable
HCT _R FPFF ₂₂	Copper conductor fire-proof insulated layer steel tape armored high temperature resistant fire proof cable
HCT _R FPFF ₃₁	Copper conductor fire proof insulated layer steel wire braid armored high temperature resistant fire proof cable
HCT _R FPFF ₃₂	Copper conductor fire proof insulated layer steel wire armored high temperature resistant fire proof cable
HCT _R FPFFP	Copper conductor fire proof insulated layer high temperature resistant screened fire proof cable
HCT _R FPFFP ₋₂₂	Copper conductor fire proof insulated layer steel tape armored high temperature resistant screened fire proof cable
HCT _R FPFFP ₋₃₁	Copper conductor fire proof Insulated layer steel wire braid armored high temperature resistant screened fire proof cable
HCT _R FPFFP ₋₃₂	Copper conductor fire proof insulated layer steel wire armored high temperature resistant screened fire proof cable

◆ Deliver Length

Cable delivery length is not less than 100m, permitted not less than 50m to delivery, quantity does not exceed 10% of total delivery, if there are special requirements, detailed instructions, it should be negotiated by vendor and buyer.