

Insulation and Sheath: Fluorinated Ethylene Propylene (FEP), Shape: Flat (F), Shield: Tinned Copper Wire Braided (BT)

Type (P3)

ASTM

Division Symbol (P4)

**-FEPFEP(UL)F-BT**

Rated Temp. **200°C**

**Features:** Excellence in Heat-resistance, Cold-proof, Chemical proof,  
Damp-proof, Water-proof, Electro-static effect

**This kind of cable can be used in a severe environment.**



**\*UL Certificate Thermocouple Extension Cable**  
( Style No.: UL13, File No.: E254583, Category: CL3R)

### How to Choose a Model

An example, based on IEC-60584-3-2007

**KX-ASTM-SP-FEPFEP(UL) F-BT 1P × 16AWG(4/0.65)**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Cable Type, ② Standard(Color Code), ③ Division Symbol (Class & Tolerance), ④ Insulation & Sheath  
⑤ Shape, ⑥ Shield, ⑦ Pair, ⑧ Conductor Size, ⑨ Conductor Combination

- **Cable Type:** Select from KX, JX, TX, EX, RX, BX, and NX(KCA and KCB can not be applied)
- **Standard:** IEC, JIS, and other international Standards
- **Division Symbols:** ①ASTM Standard(SP:Special Tolerance, ST: Standard Tolerance),  
②IEC Standard (Precision Class:1-S/ Normal Class:2-S)
- **Insulation & Sheath:** FEPFEP (200°C) only
- **Applicable for some other kinds of shields as follows :**
  - Tinned Copper Wire Braided(BT)
  - Alumi-Mylar Tape with a Drain Wire(SL)
  - Copper Tape(SA)
  - Plain Copper Wire Braided(BA)
- **Conductor Size:** AWG23~AWG14

**\*Remarks:** Applicable for 105°C PVC(UL) Category: CL3R and CL3X

Conductor	AWG	23	20	19	17	16	14
	Nominal sectional area (SQ)	0.3	0.5	0.75	1.25	1.3	2
	Conductor (No./mm)	12/0.18	7/0.32	24/0.2	7/0.45	4/0.65	7/0.6
	Nom.O.D (mm)	0.72	0.96	1.13	1.35	1.57	1.8
Insulation	Nom.thick (mm)	0.30	0.30	0.30	0.30	0.30	0.30
	Approx.O.D (mm)	1.32	1.56	1.73	1.95	2.17	2.4
Shield	Nom.thick (mm)	0.30	0.30	0.30	0.30	0.30	0.30
	Approx.O.D (mm)	2.0 × 3.3	2.2 × 3.8	2.4 × 4.1	2.6 × 4.5	2.8 × 5.0	3.1 × 5.6
Sheath	Nom.thick (mm)	0.40	0.40	0.40	0.40	0.40	0.40
	Approx.O.D (mm)	2.8 × 4.1	3.0 × 4.6	3.2 × 4.9	3.4 × 5.3	3.6 × 5.8	3.9 × 6.4
Electric Characteristics	Voltage resistance (V/min)	AC1500	AC1500	AC1500	AC1500	AC1500	AC1500
	Insulation resistance (MQ /km)	1500	1500	1500	1500	1500	1500
Approx Length (153m/Ft)		500	500	500	500	500	500
Weight (kg/km)		27	35	41	51	56	75

