

P30 RFOU-HCF / TFOU-HCF 6/10(12) kV



- Outer Sheath2
- Outer Sheath1
- Armour
- Conductors
- Conductor Screen
- Insulation Screen
- Insulation
- Inner Sheath
- HC-fire protection

Applications :	These cables are fire resistant, flame retardant, low smoke and halogen free, used for emergency control, power and lighting systems that need to be operational during a 1100°C hydrocarbon fire.
Standards :	IEC 60092-354; IEC 60092-351; IEC 60092-359; IEC 60332-1; IEC 60331-21; IEC 60332-3-22; IEC 60754-1,2; IEC 61034-1,2; NEK 606:2004
Conductors :	Circular tinned annealed stranded compacted copper to IEC 60228 class 2.
Conductor Screen :	Semi conducting material.
Insulation :	Halogen-free EPR. XLPE can be offered as an option.
Insulation Screen :	Semi conducting material and tinned copper wire braid.
Bedding :	Halogen free compound.
Armour :	Tinned copper wire braid.
Outer Sheath1 :	Halogen free thermosetting compound, SHF2, coloured red.
HC-fire protection :	Extruded thermoplastic fire protection compound.
Taping :	Lapped glass fibre tape.
Outer Sheath2 :	Flame retardant halogen-free thermoplastic compound, SHF1, coloured red.
Optional :	P31 RFOU-HCF / TFOU-HCF 8.7/15kV; P32 RFOU-HCF / TFOU-HCF 12/20(24) kV; P33 RFOU-HCF / TFOU-HCF 18/30(36) kV

Electrical Characteristics :

Nominal Cross Section Area	mm ²	70	95	120	150	185	240	300
Nominal Conductor Diameter	mm	10.3	12.2	13.8	15.1	17.0	19.6	21.9
Maximum DC Resistant@20°C	Ω/km	0.27	0.195	0.154	0.126	0.1	0.0762	0.0607
Continuous Current Rating@45°C1 Core	A	242	293	339	389	444	522	601

Continuous Current Rating@45°C3 Core	A	169	205	237	272	311	365	421
Short Circuit Current 1s	A	10020	13590	17170	21460	26470	34340	42930
Operating Voltage	KV	6/10	6/10	6/10	6/10	6/10	6/10	6/10

Ambient Temperature Correction Factors :

Ambient Temperature Correction Factors	35	40	45	50	55	60	65	70	75	80
Rating Factor	1.1	1.05	1.0	0.94	0.88	0.82	0.74	0.67	0.58	0.47

Mechanical and Thermal Properties :

Bending Radius : 25×OD (during installation); 12×OD (fixed installed).

Temperature Range : -20°C ~ +90°C.

Dimensions and Weight :

Construction No. of cores×Cross section (mm ²)	Nominal Insulation Thickness mm	Nominal Diameter Over Bedding mm	Nominal Diameter Over Sheath1 mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×70	3.4	23.5	30.0	62.0	5220
1×95	3.4	25.5	32.0	64.5	5900
1×120	3.4	27.5	34.0	66.5	6340
1×150	3.4	28.5	35.0	67.5	6670
1×185	3.4	30.5	36.5	69.0	7320
1×240	3.4	33.0	39.0	72.0	8250
1×300	3.4	35.0	41.5	74.5	9280
3×50	3.4	47.0	55.0	89.0	10970
3×95	3.4	54.0	62.5	97.0	14230
3×150	3.4	60.0	70.5	106.0	17400