

## F-PVC SERIES

High Performance Flexible  
Platform Cable Indoor/Outdoor  
450/750V 70°C



### APPLICATIONS:

**Materials and Handling Systems** Suitable for use in indoor and outdoor crane and festooning systems, conveyor systems and energy chains.

**Confined Spaces** With its flat configuration, this cable can be laid in areas subject to space confinements.

Humid and wet rooms and for outdoor use.

**Pumping** Suitable for permanent submersion up to 200 metres.

### PRODUCT FEATURES:

- ▶ Special SPVC used for indoor and outdoor applications
- ▶ Tensile load up to 15 N/mm<sup>2</sup>
- ▶ Travel speed 180 metres per minute
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperatures
- ▶ Heat, oil and chemical resistant (See *Technical Section*)

See over for full product table ▶

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded extreme flexibility (Class 5 & 6).

**Insulation** Special SPVC.

**Sheath** Special SPVC.

### CHARACTERISTICS:

**Temperature Range** Fixed -40°C to 60°C / Flexing -25°C to 60°C.

**Maximum Conductor Temperature** 70°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** U<sub>o</sub>/U 450/750V.

**Minimum Bending Radius** Fixed 5 x cable height / Flexing 10 x cable height.

**Sheath Colour** Black.

#### Standard Core Colours

4 Core – Brown, Black, Grey, Green/Yellow.

5 Core – Blue, Brown, Black, Grey, Green/Yellow.


Multi Core – Black Numbered, Green/Yellow.

**Relevant Standards** DIN VDE 0295, DIN VDE 0293, IEC 60332-1, **RoHS** Compliant.

## INSTALLATION NOTES FOR FESTOONING SYSTEMS USING PLATFORM CABLES

- ▶ Put the cable trolley on the guiding rail and push them together at the starting point. The distance between the bedding surface of two trolleys must be wider than double the thickness of all cables when stacked (packeted).
- ▶ Packeting should be started with the smaller cross-section laying on the bedding and built up successively so that the largest cross-section is on top.
- ▶ Also be careful to have a symmetrical load distribution on the bedding of each cable trolley.
- ▶ For fast moving or multi-packeted systems the larger cross-section cables should have a shorter loop depth than the smaller cross-section cables and be fitted with tow ropes to limit conductor stress and whiplash on acceleration and braking.
- ▶ Flat cables should never reach full extension especially in the case of multi core flat cables smaller than 2.5mm<sup>2</sup> where it is critical due to its low tensile strength. Allow +10% cable for calculations of trolley travel length.

## F-TPE SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter + / - 10%	Approx. Weight	Nominal Amps un-enclosed protected from sun @ 30°C fixed application	3 Phase Volt Drop @50Hz / MAX. Conductor Temp:
	(mm <sup>2</sup> )	No. of wires x mm	(mm)	(Kg/Km)	Spaced From Surface 	90°C (Mv/Am)
F4/1.5PVC	4 x 1.5	84/0.15	6.0 x 16.4	160	18	30.000
F4/2.5PVC	4 x 2.5	140/0.15	6.9 x 19.6	224	26	16.400
F4/4.0PVC	4 x 4.0	224/0.15	8.4 x 24.1	328	34	10.200
F4/6.0PVC	4 x 6.0	192/0.20	9.1 x 26.6	439	44	6.800
F4/10PVC	4 x 10.0	320/0.20	10.3 x 31.8	690	61	4.050
F4/16PVC	4 x 16.0	512/0.20	12.0 x 36.7	996	82	2.550
F4/25PVC	4 x 25.0	800/0.20	13.7 x 43.5	1490	108	1.610
F4/35PVC	4 x 35.0	280/0.40	15.8 x 49.3	1980	135	1.170
F4/50PVC	4 x 50.0	400/0.40	18.1 x 57.7	2790	168	0.868
F4/70PVC	4 x 70.0	356/0.50	21.0 x 66.7	3630	207	0.609
F4/95PVC	4 x 95.0	485/0.50	23.8 x 76.1	4918	250	0.450
F5/1.5PVC	5 x 1.5	84/0.15	5.6 x 21.3	200	14	30.000
F5/2.5PVC	5 x 2.5	140/0.15	7.0 x 25.0	285	20	16.400
F5/4.0PVC	5 x 4.0	224/0.15	8.4 x 30.4	412	26	10.200
F5/6.0PVC	5 x 6.0	192/0.20	9.1 x 33.2	550	33	6.800
F5/10PVC	5 x 10.0	320/0.20	10.4 x 40.0	866	46	4.050
F5/25PVC	5 x 25.0	800/0.20	14.3 x 54.6	1868	81	1.610
F7/1.5PVC	7 x 1.5	84/0.15	5.7 x 27.4	270	12	30.000
F7/2.5PVC	7 x 2.5	140/0.15	7.0 x 32.5	380	17	16.400
F7/4.0PVC	7 x 4.0	224/0.15	8.5 x 40.4	550	22	10.200
F7/6.0PVC	7 x 6.0	192/0.20	9.1 x 44.1	740	29	6.800
F8/1.5PVC	8 x 1.5	84/0.15	5.7 x 30.7	290	12	30.000
F8/2.5PVC	8 x 2.5	140/0.15	6.9 x 36.7	425	17	16.400
F10/1.5PVC	10 x 1.5	84/0.15	6.4 x 39.6	365	10	30.000
F10/2.5PVC	10 x 2.5	140/0.15	7.6 x 47.2	523	14	16.400
F12/1.5PVC	12 x 1.5	84/0.15	6.4 x 45.6	430	10	30.000
F12/2.5PVC	12 x 2.5	140/0.15	7.7 x 53.3	628	14	16.400