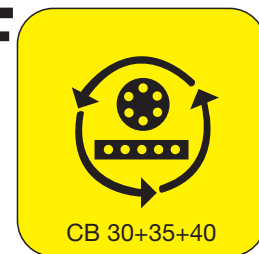
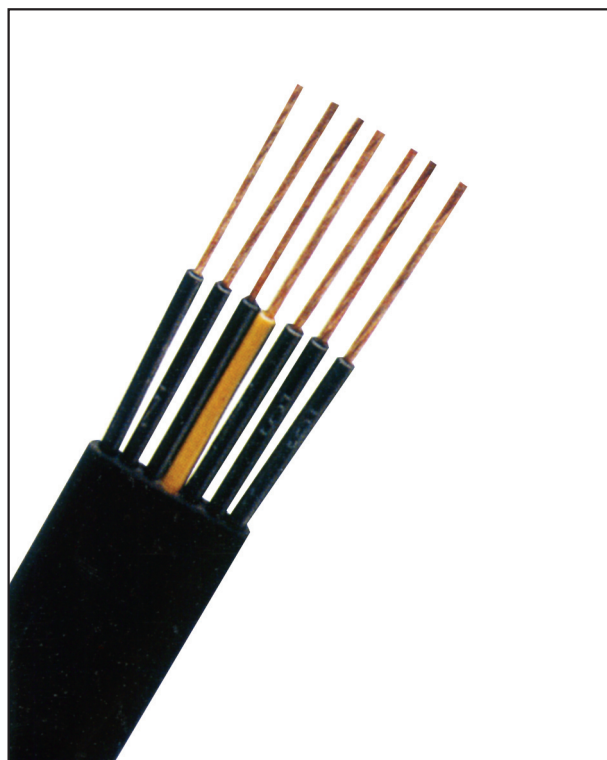


# TEXOPLAST<sup>TM</sup> FLAT CABLE-TPLF

HARMONISED PVC FLAT CABLE ACCORDING TO VDE 0281 AND OTHER DESIGNS,  
PRINCIPALLY BASED ON ABOVE SPECIFICATION, NOMINAL VOLTAGE 500 V to 1000 V \*



## FESTOONING AND LIFT DUTY FOR MEDIUM MECHANICAL STRESSES



### CONSTRUCTION

Conductor of copper, finely stranded to class 5/6, cores PVC insulated, laid up in parallel, certain multicores have core groups separated by a web, PVC outer sheath, black.

*Please Note:* Powermite can offer Texoplast flat cables with a different stranding, different insulation materials, screened cores and pairs, bundled core lay up, composite design, steel rope tension relief and in different sheath qualities including flame retardant.

### CORE IDENTIFICATION

Up to 4 cores : coloured

5 cores and more : black with white numbers

Cable description bearing – O without earth core

Cable description bearing – J with green/yellow earth core

### APPLICATION:

**TPLF** cables can be used in dry, damp or wet environments as power, control and instrumentation cables.

**TPLFC** cables qualify as TPLF but offer screened cores, pairs or bundled core assemblies (**b**) of up to 80% coverage.

**TPLFT** cables qualify as TPLF but offer tension relief steel cores and fire retardant sheath.

PVC flat cable is preferably used indoors, in electrification systems where it is subjected to lots of flexing in a single plane i.e. cranes, hoists, conveyor systems, machine tools, lifts etc.

**For chemical resistance table refer to page 57 table 11**

### TECHNICAL DATA

1. Max. operating Voltage AC up to	1,5 mm <sup>2</sup>	: 450 V / 750 V*	6. Current Capacity	:	see Table 3 page 52 VDE 0100
Max. operating Voltage AC from	2,5 mm <sup>2</sup>	: 600 V / 1000 V*	7. Derating	:	see Table 3 page 52 VDE 0100
2. Max. operating Voltage DC up to	1,5 mm <sup>2</sup>	: 675 V / 1125 V	8. Specification	:	acc. to VDE 0281 Part 403 + 404
Max. operating Voltage DC from	2,5 mm <sup>2</sup>	: 900 V / 1500 V	9. Min. bending radius	:	mobile 10 x cable thickness fixed 4 x cable thickness
3. Test Voltage AC	:	3000 V	10. Tensile stress	:	not to exceed 15N/mm <sup>2</sup> of total core cross section of Type TPLF
4. Conductor resistance	:	to DIN/VDE 0295 Class 5	11. Marking	:	printed or embossed
5. Temperature range	:	mobile – 15 °C to + 70 °C fixed – 40 °C to + 70 °C			

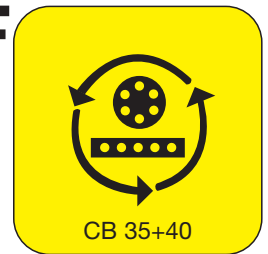
No. of cores and rated cross section	max. diameter of single strand	max. outer dimension	weight approx.	No. of cores and rated cross section	max. diameter of single strand	max. outer dimension	weight approx.
mm <sup>2</sup>	mm	mm	kg/m	mm <sup>2</sup>	mm	mm	kg/m
<b>TPLF-J</b>				<b>TPLF-J</b>			
4 x 1,5	0,26	5,5 x 15,5	0,15	7 x 4	0,31	7,1 x 38,0	0,54
4 x 2,5	0,26	5,9 x 19,0	0,22	7 x 6	0,31	7,8 x 43,0	0,74
4 x 4	0,31	7,1 x 22,0	0,31				
4 x 6	0,31	7,8 x 25,0	0,42	8 x 1,5	0,26	5,2 x 30,0	0,29
4 x 10	0,41	9,9 x 31,5	0,67	8 x 2,5	0,26	5,9 x 38,0	0,42
4 x 16	0,41	11,2 x 36,5	0,95				
4 x 25	0,41	13,0 x 42,5	1,42	12 x 1,5	0,26	5,2 x 41,5	0,39
4 x 35	0,41	17,0 x 50,0	2,00	12 x 2,5	0,26	5,9 x 52,0	0,60
4 x 50	0,41	20,0 x 63,0	2,96				
4 x 70	0,509	23,0 x 72,0	3,96				
4 x 95	0,509	25,0 x 83,0	5,32				

Sizes, cores and designs not mentioned here are available on request

Above sizes may require minimum quantities  
All quoted data is approximate and not binding

# TEXOPLAST<sup>TM</sup> FLAT CABLE-TPLF

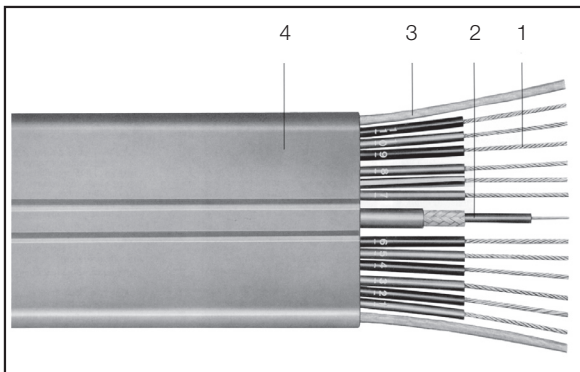
PVC FLAT CABLES BASED ON VDE 0281, NOMINAL VOLTAGE between 500 V/1000 V \*



## FESTOONING AND LIFT DUTY FOR MEDIUM MECHANICAL STRESSES

No. of cores and rated cross section mm <sup>2</sup>	max. diameter of single strand mm	max. outer dimension mm	weight approx. kg/m
<b>TPLFC ... - J screened</b>			
4 x 1	0,21	5,0 x 13,9	0,13
6 x 2,5	0,26	9,9 x 36,7	0,58
8 x 1,5	0,26	6,0 x 32,4	0,38
12 x 1,5	0,26	6,0 x 52,0	0,61
<b>TPLFCb ... - screened</b>			
5 x (4 x 0,5) - O	0,21	9,2 x 35,5	0,52
7 x (4 x 0,5) - O	0,21	10,3 x 50,5	0,75
7 x (3 x 1) - J	0,21	10,3 x 50,0	0,76
14 x (4 x 0,5) - O	0,21	10,3 x 100,0	1,51
<b>TPLFT ... - J 2-tension relief cores</b>			
4 x 1,5	0,26	5,5 x 20,0	0,22
4 x 16	0,41	11,2 x 51,4	1,35
12 x 1,5	0,26	6,4 x 50,2	0,57

## SPECIAL LIFT FLAT CABLES - TPLFT



### CONSTRUCTION

1. Flexible PVC-insulated stranded cores, alternate left and right stranding lay, laid up in parallel
2. Optical fibre cable (LWL)
3. Low-elastic supporting elements
4. PVC outer sheath

\* graded index fibre

No. of cores and rated cross section mm <sup>2</sup>	max. dia. of single strands mm	max. outer dimension mm	max. weight approx. kg/m	max. single suspension height m
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### TPLFH(LWL)-O

12 x 1 + 2LWL	0,2 + *100/140 µm	51 x 6,4	0,52	80
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### CONSTRUCTION

1. 6-taped control cable groups comprising of bundled left and right hand laid assemblies of 5 flexible PVC-insulated cores laid around a manila rope centre, cores having an extra short lay, taped and laid up in parallel.
2. 1 - Telephone cable group which comprises of 4 flexible PVC insulated cores laid up around a central member in quad configuration, collectively screened and polyethylene sheathed.
3. High tensile steel carrier elements
4. PVC outer sheath, cold resistant

No. of cores and rated cross section mm <sup>2</sup>	max. dia. of single strands mm	max. outer dimension mm	max. weight approx. kg/m	max. single suspension height m
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### TPLFT(telf)-O

34 x 1	0,15	76 x 11	1,15	220
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The above cables are suitable for up to 500 V in operating temperatures of between - 15 °C to + 70 °C at speeds of up to 2 m/sec.

Sizes, cores and designs not mentioned above are available on request

Above sizes may require minimum quantities  
All quoted data is approximate and not binding