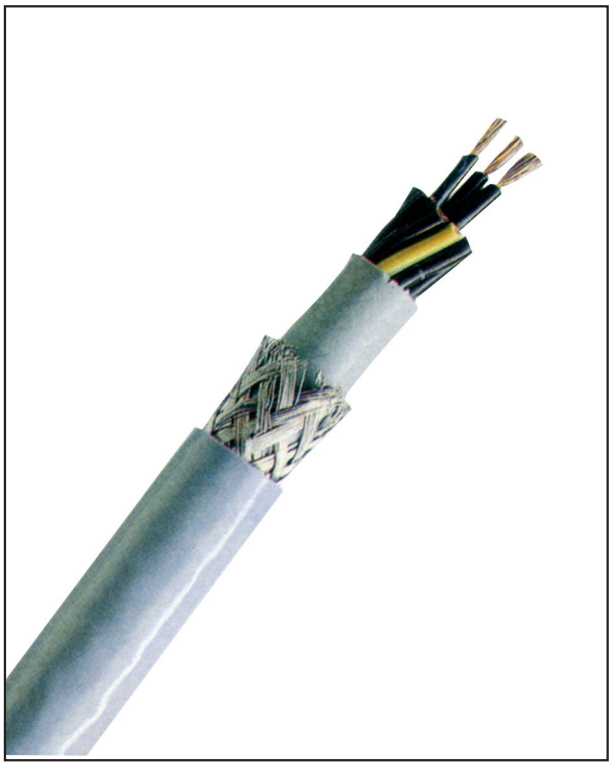
TEXOFLEX™ CABLES– TFXS / TFXC

PVC FLEXIBLE POWER AND CONTROL CABLE ACC. TO VDE0250 SPEC – NOMINAL VOLTAGE 750V *

CC 30+40

FOR MEDIUM MECHANICAL STRESSES



CONSTRUCTION

Conductors of copper, bare finely stranded to class 5, cores PVC insulated, laid up, PVC bedded, screened with galvanised steel wire, PVC outer sheath, grey.

Please Note: Powermite can offer TFXS/TFXC cables with different strandings, insulation materials, core lay length, core assemblies, screens, aluminium mylar tape, tension relief features and a variety of PVC sheath materials and colours, flame retardant, cold, oil and chemical resistant.

CORE IDENTIFICATION to VDE 0293

Up to 5 cores : mostly coloured

6 cores and more : mostly numbered

Cable description bearing – O without earth core

Cable description bearing – J with green/yellow earth core

APPLICATION:

TFXS cables can be used indoors and outdoors in dry and wet environments as Power, Control, Instrumentation and Telemetric cable. It can be used for elevated mechanical stress in applications of unrestricted movement without tensile stress or forced guiding. The braiding provides high mechanical as well as effective electrical protection.

TFXC cables incorporate a PCW screen and the “C” indicates copper braiding between inner and outer sheath. The data given hereunder for TFXS are also relevant for type TFXC.

For chemical resistance table refer to page 57 table 11

TECHNICAL DATA

1. Max. operating Voltage AC up to 1,5 mm² : 450 V/ 750 V*
   from 2,5 mm² : 600 V/1000 V*
2. Max. operating Voltage DC up to 1,5 mm² : 675 V/1125 V
   from 2,5 mm² : 900 V/1500 V
3. Test Voltage AC : 2500 V
4. Conductor resistance : to VDE 0295 Class 5
5. Temperature range : mobile – 15 °C to + 70 °C
   fixed – 40 °C to + 70 °C
6. Current Capacity : see Table 3 page 52 to VDE 0100
7. Derating : see Table 3 page 52 to VDE 0100
8. Specification : according to VDE 0250
9. Min. bending radius : mobile 15 x cable O.D.
   fixed 5 x cable O.D.
10. Tensile stress : not to exceed 15N/mm² of total core cross section of largest core size
11. Marking : printed

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.
mm²	mm	mm	kg/m
TFXS-O			
2 x 0,75	0,21	9	0,13
2 x 1	0,21	10	0,16
2 x 1,5	0,26	10	0,18
2 x 2,5	0,26	11	0,22
3 x 0,75	0,21	9	0,14
3 x 1	0,21	10	0,19
3 x 1,5	0,26	11	0,20
3 x 2,5	0,26	12	0,29
3 x 4	0,31	14	0,42

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.
mm²	mm	mm	kg/m
TFXS-J			
2 x 0,75	0,21	9	0,13
2 x 1	0,21	10	0,16
2 x 1,5	0,26	10	0,18
2 x 2,5	0,26	11	0,22
3 x 0,75	0,21	9	0,14
3 x 1	0,21	10	0,19
3 x 1,5	0,26	11	0,20
3 x 2,5	0,26	12	0,29
3 x 4	0,31	14	0,42
4 x 0,75	0,21	10	0,17
4 x 1,5	0,26	11	0,23
4 x 2,5	0,26	13	0,36
4 x 4	0,31	15	0,53
4 x 6	0,31	19	0,69
4 x 10	0,41	24	0,83
4 x 16	0,41	29	1,20

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

continued overleaf

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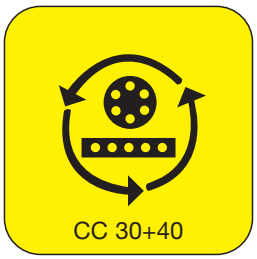

FOR MEDIUM MECHANICAL STRESSES

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension	weight approx.
mm²	mm	mm	kg/m
TFXS-J			
7 x 0,75	0,21	11	0,23
7 x 1,5	0,26	13	0,35
7 x 2,5	0,26	15	0,48
7 x 4	0,31	19	0,78
7 x 6	0,31	21	0,95
12 x 0,75	0,21	15	0,36
12 x 1,5	0,26	17	0,51
12 x 2,5	0,26	20	0,78
19 x 1	0,21	19	0,55
19 x 1,5	0,26	20	0,76
19 x 2,5	0,26	24	1,11
25 x 1	0,21	20	0,79
34 x 0,75	0,21	22	0,85
40 x 1	0,21	25	1,01
50 x 1	0,21	27	1,25
61 x 0,75	0,21	30	1,26

No. of cores and rated cross section	max. diameter of single strands	max. outer dimension
mm²	mm	mm
TFXSAF-O, screened		
1 x 6	0,31	9,0
1 x 10	0,41	11,0
1 x 16	0,41	12,0
1 x 25	0,41	14,6
1 x 35	0,41	15,9
1 x 50	0,41	19,1
1 x 70	0,41	22,0
1 x 95	0,509	24,1

The above cable is approved by the “Germanischer Lloyd” Reg. 64652HH, for use on ships. Ask for further details.

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