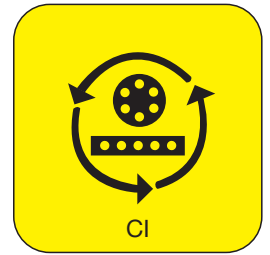
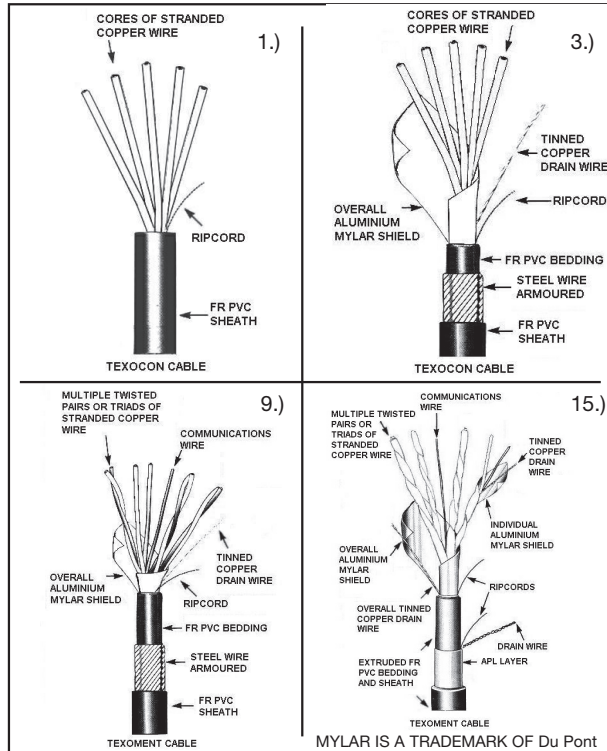


TEXOCON CONTROL/TEXOMENT INSTRUMENTATION CABLES

To various Industry Specifications – Control Cable max. 1500V – Instrument Cable 300V



NON FLEXIBLE CABLE - MEDIUM MECHANICAL STRESSES



CONSTRUCTION

Conductors of non flexible stranding, insulation of PVC or PE (XLPE on request) laid up as cores, pairs or triads, individually or collectively screened, SWA or APL armoured. Pairs and triads are twisted screened to suppress electrical interference (EMI).

Please Note: Powermite can offer cables in cross sections from 0,5mm² to 1,5mm² as a standard. Other core and cable constructions to suit the various BUS applications on request.

CORE IDENTIFICATION

- Control cable : up to 4 cores, coloured
5 cores and more, numbered
- Instrumentation cable : single pairs, coloured black/white
single triad, coloured black/white/red
multi pair/triad are coloured and alpha-
numerically numbered

APPLICATION:

TEXOCON/MENT cables can be used indoors and outdoors in dry, damp and wet environments as Control and Instrumentation cables. It finds use in the Mining Sector, Mills, Municipalities, Power Stations and petrochemical installations among other industries.

For chemical resistance table refer to pages 56 to 58

TECHNICAL DATA

- | | | | |
|---|--|------------------------|------------------------|
| 1. Max. oper. Voltage AC for TEXOCON cable | : up to 0,5 mm ² : 300/500V | 3. Test voltage AC | : 2000V |
| | from 1,0mm ² : 600/1000V | 4. Temperature range | : - 5 °C to + 65 °C |
| 1a. Max. oper. Voltage DC for TEXOCON cable | : up to 0,5 mm ² : 450/750V | 5. Current Capacity | : see table 3, page 52 |
| | from 1,0mm ² : 900/1500V | 6. Specification | : Sasaol or similar |
| 2. Max. oper. Voltage DC for TEXOMENT cable | : all sizes : 300V | 7. Min. bending radius | : 4 x O.D. |
| | | 8. Marking | : printed |

Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland
-------------	-------------	---------	-------	-------------	-------------	---------	-------	-------------	-------------	---------	-------

1.) TEXOCON – PVC, PVC

2 x 0,5 mm ²	0,05	6,5	00
3 x 0,5 mm ²	0,06	6,7	00
4 x 0,5 mm ²	0,07	7,5	0
7 x 0,5 mm ²	0,12	8,9	0
10 x 0,5 mm ²	0,16	11,4	1
12 x 0,5 mm ²	0,19	11,6	1
14 x 0,5 mm ²	0,20	12,0	1
19 x 0,5 mm ²	0,26	13,8	1
24 x 0,5 mm ²	0,33	16,0	2
27 x 0,5 mm ²	0,35	16,4	2
37 x 0,5 mm ²	0,46	18,0	2
50 x 0,5 mm ²	0,60	21,4	3
2 x 1,0 mm ²	0,08	8,0	0
3 x 1,0 mm ²	0,10	8,8	0
4 x 1,0 mm ²	0,12	9,5	0
7 x 1,0 mm ²	0,18	11,3	1
10 x 1,0 mm ²	0,28	14,6	2
12 x 1,0 mm ²	0,32	15,1	2
14 x 1,0 mm ²	0,35	15,9	2
19 x 1,0 mm ²	0,47	17,6	2
24 x 1,0 mm ²	0,60	21,0	3
27 x 1,0 mm ²	0,65	21,4	3
37 x 1,0 mm ²	0,87	24,3	3
50 x 1,0 mm ²	1,14	28,5	4

2.) TEXOCON – OAM, PVC

2 x 0,5 mm ²	0,06	7,1	00
3 x 0,5 mm ²	0,07	7,4	0
4 x 0,5 mm ²	0,08	7,9	0
7 x 0,5 mm ²	0,13	9,6	0
10 x 0,5 mm ²	0,17	11,7	1
12 x 0,5 mm ²	0,19	12,1	1
14 x 0,5 mm ²	0,21	12,6	1
19 x 0,5 mm ²	0,28	14,3	1
24 x 0,5 mm ²	0,34	16,4	2
27 x 0,5 mm ²	0,37	16,7	2
37 x 0,5 mm ²	0,48	18,5	2
50 x 0,5 mm ²	0,64	22,0	3
2 x 1,0 mm ²	0,09	8,6	0
3 x 1,0 mm ²	0,11	9,0	0
4 x 1,0 mm ²	0,14	10,2	0
7 x 1,0 mm ²	0,20	11,0	1
10 x 1,0 mm ²	0,29	15,2	2
12 x 1,0 mm ²	0,33	15,7	2
14 x 1,0 mm ²	0,37	16,4	2
19 x 1,0 mm ²	0,49	18,2	2
24 x 1,0 mm ²	0,61	21,5	3
27 x 1,0 mm ²	0,67	21,9	3
37 x 1,0 mm ²	0,89	24,8	3
50 x 1,0 mm ²	1,10	28,9	4

3.) TEXOCON – PVC, OAM, PVC, SWA, PVC

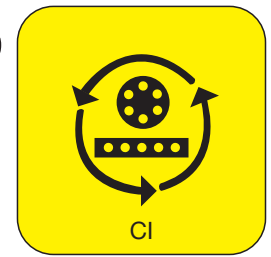
2 x 0,5 mm ²	0,27	11,2	0
3 x 0,5 mm ²	0,29	15,6	0
4 x 0,5 mm ²	0,31	12,1	0
7 x 0,5 mm ²	0,41	13,8	0
10 x 0,5 mm ²	0,57	16,6	0
12 x 0,5 mm ²	0,60	17,0	0
14 x 0,5 mm ²	0,64	17,9	0
19 x 0,5 mm ²	0,77	19,6	1
24 x 0,5 mm ²	0,97	22,4	2
27 x 0,5 mm ²	1,01	22,7	2
37 x 0,5 mm ²	1,18	24,5	2
50 x 0,5 mm ²	1,60	29,2	4
2 x 1,0 mm ²	0,34	12,8	0
3 x 1,0 mm ²	0,37	13,2	0
4 x 1,0 mm ²	0,41	15,1	0
7 x 1,0 mm ²	0,61	16,8	0
10 x 1,0 mm ²	0,81	21,2	1
12 x 1,0 mm ²	0,89	21,7	1
14 x 1,0 mm ²	1,00	22,4	2
19 x 1,0 mm ²	1,19	24,2	2
24 x 1,0 mm ²	1,54	28,7	4
27 x 1,0 mm ²	1,62	29,2	4
37 x 1,0 mm ²	1,87	32,0	4

NOTE: OAM = Overall Aluminium Mylar, SWA = Steel Wire Armoured, APL = Aluminium Poly Laminated, IOAM = Individually and Overall Alu Mylar Screened

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

TEXOCON CONTROL/TEXOMENT INSTRUMENTATION CABLES

To various Industry Specifications - Control Cable max. 1500V - Instrument Cable 300V



NON FLEXIBLE CABLE - MEDIUM MECHANICAL STRESSES

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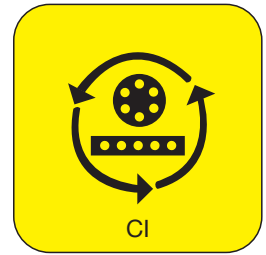
Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland
4.) TEXOCON – PVC, OAM, PVC, APL				7.) TEXOMENT – PVC, I/OAM, PVC				11.) TEXOMENT – PVC, I/OAM, PVC, SWA, PVC			
2 x 0,5 mm ²	0,13	10,3	0	36 x (2 x 0,5) mm ²	1,07	27,8	4	8 x (2 x 1,0) mm ²	1,24	22,9	1
3 x 0,5 mm ²	0,14	10,7	0	50 x (2 x 0,5) mm ²	1,45	32,0	4	12 x (2 x 1,0) mm ²	1,52	26,4	4
4 x 0,5 mm ²	0,15	11,2	1	2 x (2 x 1,0) mm ²	0,17	11,8	1	16 x (2 x 1,0) mm ²	2,03	30,3	4
7 x 0,5 mm ²	0,23	12,9	1	4 x (2 x 1,0) mm ²	0,25	13,5	1	20 x (2 x 1,0) mm ²	2,33	33,5	4
10 x 0,5 mm ²	0,29	15,0	2	8 x (2 x 1,0) mm ²	0,45	17,6	2	24 x (2 x 1,0) mm ²	2,60	35,8	5
12 x 0,5 mm ²	0,31	15,3	2	12 x (2 x 1,0) mm ²	0,65	21,1	3	12.) TEXOMENT – PVC, I/OAM, PVC, SWA, PVC			
14 x 0,5 mm ²	0,34	15,9	2	16 x (2 x 1,0) mm ²	0,79	23,9	3	2 x (3 x 0,5) mm ²	0,47	15,1	0
19 x 0,5 mm ²	0,44	18,0	2	20 x (2 x 1,0) mm ²	0,98	26,4	4	4 x (3 x 0,5) mm ²	0,70	17,1	1
24 x 0,5 mm ²	0,52	20,0	2	24 x (2 x 1,0) mm ²	1,14	28,6	4	8 x (3 x 0,5) mm ²	1,16	21,7	2
27 x 0,5 mm ²	0,55	20,5	2	8.) TEXOMENT – PVC, I/OAM, PVC				12 x (3 x 0,5) mm ²	1,51	26,0	4
37 x 0,5 mm ²	0,67	22,2	3	2 x (3 x 0,5) mm ²	0,15	10,9	1	16 x (3 x 0,5) mm ²	1,96	28,5	4
50 x 0,5 mm ²	0,91	25,7	3	4 x (3 x 0,5) mm ²	0,22	12,5	1	20 x (3 x 0,5) mm ²	2,22	31,4	4
2 x 1,0 mm ²	0,16	11,9	1	8 x (3 x 0,5) mm ²	0,39	16,4	2	24 x (3 x 0,5) mm ²	2,56	34,8	4
3 x 1,0 mm ²	0,19	12,3	1	12 x (3 x 0,5) mm ²	0,56	20,0	2	2 x (3 x 1,0) mm ²	0,68	17,9	1
4 x 1,0 mm ²	0,24	13,5	1	16 x (3 x 0,5) mm ²	0,70	22,1	3	4 x (3 x 1,0) mm ²	0,87	20,7	1
7 x 1,0 mm ²	0,32	15,2	2	20 x (3 x 0,5) mm ²	0,84	24,2	3	8 x (3 x 1,0) mm ²	1,45	26,5	4
10 x 1,0 mm ²	0,46	18,5	2	24 x (3 x 0,5) mm ²	1,00	27,6	4	12 x (3 x 1,0) mm ²	2,08	30,7	4
12 x 1,0 mm ²	0,51	19,0	2	2 x (3 x 1,0) mm ²	0,20	13,0	1	16 x (3 x 1,0) mm ²	2,44	34,6	4
14 x 1,0 mm ²	0,55	19,7	2	4 x (3 x 1,0) mm ²	0,32	15,4	2	13.) TEXOMENT – PVC, OAM, PVC, APL			
19 x 1,0 mm ²	0,71	21,4	3	8 x (3 x 1,0) mm ²	0,57	20,3	2	1 x (2 x 0,5) mm ²	0,10	9,0	0
24 x 1,0 mm ²	0,87	24,8	3	12 x (3 x 1,0) mm ²	0,83	24,3	3	2 x (2 x 0,5) mm ²	0,21	13,1	1
27 x 1,0 mm ²	0,93	25,2	3	16 x (3 x 1,0) mm ²	1,06	27,4	4	4 x (2 x 0,5) mm ²	0,25	14,4	1
37 x 1,0 mm ²	1,22	28,1	4	9.) TEXOMENT – PVC, OAM, PVC, SWA, PVC				8 x (2 x 0,5) mm ²	0,40	17,5	2
50 x 1,0 mm ²	1,54	32,2	4	1 x (2 x 0,5) mm ²	0,22	9,9	00	12 x (2 x 0,5) mm ²	0,52	20,0	2
5.) TEXOMENT – PVC, OAM, PVC				2 x (2 x 0,5) mm ²	0,39	14,0	0	16 x (2 x 0,5) mm ²	0,62	21,6	3
1 x (2 x 0,5) mm ²	0,05	5,7	00	4 x (2 x 0,5) mm ²	0,53	15,2	0	20 x (2 x 0,5) mm ²	0,72	23,1	3
2 x (2 x 0,5) mm ²	0,10	9,8	0	8 x (2 x 0,5) mm ²	0,72	19,5	1	24 x (2 x 0,5) mm ²	0,80	24,5	3
4 x (2 x 0,5) mm ²	0,14	11,0	1	12 x (2 x 0,5) mm ²	0,94	21,5	2	36 x (2 x 0,5) mm ²	1,13	30,0	4
8 x (2 x 0,5) mm ²	0,24	14,2	1	16 x (2 x 0,5) mm ²	1,09	23,2	2	1 x (2 x 1,0) mm ²	0,13	9,9	0
12 x (2 x 0,5) mm ²	0,32	16,2	2	20 x (2 x 0,5) mm ²	1,32	25,4	2	2 x (2 x 1,0) mm ²	0,26	14,9	2
16 x (2 x 0,5) mm ²	0,41	17,9	2	24 x (2 x 0,5) mm ²	1,45	26,7	4	4 x (2 x 1,0) mm ²	0,34	16,5	2
20 x (2 x 0,5) mm ²	0,48	19,4	2	36 x (2 x 0,5) mm ²	1,88	31,6	4	8 x (2 x 1,0) mm ²	0,53	20,8	3
24 x (2 x 0,5) mm ²	0,55	20,7	3	1 x (2 x 1,0) mm ²	0,26	10,9	00	12 x (2 x 1,0) mm ²	0,77	23,9	3
36 x (2 x 0,5) mm ²	0,80	25,2	3	2 x (2 x 1,0) mm ²	0,54	15,8	1	16 x (2 x 1,0) mm ²	0,88	26,0	4
1 x (2 x 1,0) mm ²	0,07	6,7	00	4 x (2 x 1,0) mm ²	0,66	17,8	1	20 x (2 x 1,0) mm ²	1,06	27,8	4
2 x (2 x 1,0) mm ²	0,14	11,6	1	8 x (2 x 1,0) mm ²	1,02	22,4	2	24 x (2 x 1,0) mm ²	1,22	30,0	4
4 x (2 x 1,0) mm ²	0,21	13,2	1	12 x (2 x 1,0) mm ²	1,29	25,5	2	14.) TEXOMENT – PVC, OAM, PVC, APL			
8 x (2 x 1,0) mm ²	0,37	17,1	2	16 x (2 x 1,0) mm ²	1,62	28,6	4	1 x (3 x 0,5) mm ²	0,11	9,2	0
12 x (2 x 1,0) mm ²	0,53	20,2	2	20 x (2 x 1,0) mm ²	1,83	30,0	4	2 x (3 x 0,5) mm ²	0,23	14,0	1
16 x (2 x 1,0) mm ²	0,66	22,2	3	24 x (2 x 1,0) mm ²	2,06	32,1	4	4 x (3 x 0,5) mm ²	0,31	15,5	2
20 x (2 x 1,0) mm ²	0,81	23,6	3	10.) TEXOMENT – PVC, OAM, PVC, SWA, PVC				8 x (3 x 0,5) mm ²	0,49	19,8	2
24 x (2 x 1,0) mm ²	0,94	25,7	3	1 x (3 x 0,5) mm ²	0,22	10,2	00	12 x (3 x 0,5) mm ²	0,69	23,3	3
6.) TEXOMENT – PVC, OAM, PVC				2 x (3 x 0,5) mm ²	0,42	14,8	0	16 x (3 x 0,5) mm ²	0,82	25,3	3
1 x (3 x 0,5) mm ²	0,06	6,0	00	4 x (3 x 0,5) mm ²	0,61	16,4	1	20 x (3 x 0,5) mm ²	0,95	27,2	4
2 x (3 x 0,5) mm ²	0,13	10,6	0	8 x (3 x 0,5) mm ²	0,86	21,3	2	24 x (3 x 0,5) mm ²	1,10	31,0	4
4 x (3 x 0,5) mm ²	0,18	12,2	1	12 x (3 x 0,5) mm ²	1,20	24,8	2	1 x (3 x 1,0) mm ²	0,15	10,3	0
8 x (3 x 0,5) mm ²	0,31	16,0	2	16 x (3 x 0,5) mm ²	1,24	27,6	3	2 x (3 x 1,0) mm ²	0,30	15,5	2
12 x (3 x 0,5) mm ²	0,45	19,5	2	20 x (3 x 0,5) mm ²	1,79	30,0	3	4 x (3 x 1,0) mm ²	0,41	19,8	2
16 x (3 x 0,5) mm ²	0,56	21,5	3	24 x (3 x 0,5) mm ²	1,98	33,2	4	8 x (3 x 1,0) mm ²	0,68	23,3	3
20 x (3 x 0,5) mm ²	0,67	23,5	3	1 x (3 x 1,0) mm ²	0,28	11,2	00	12 x (3 x 1,0) mm ²	0,96	25,3	3
24 x (3 x 0,5) mm ²	0,79	26,8	4	2 x (3 x 1,0) mm ²	0,61	17,1	1	16 x (3 x 1,0) mm ²	1,17	27,8	4
1 x (3 x 1,0) mm ²	0,08	7,0	0	4 x (3 x 1,0) mm ²	0,77	19,3	1	15.) TEXOMENT – PVC, I/OAM, PVC, APL			
2 x (3 x 1,0) mm ²	0,18	12,2	1	8 x (3 x 1,0) mm ²	1,27	24,1	2	2 x (2 x 0,5) mm ²	0,22	13,2	1
4 x (3 x 1,0) mm ²	0,27	14,0	1	12 x (3 x 1,0) mm ²	1,62	27,8	4	4 x (2 x 0,5) mm ²	0,28	14,7	2
8 x (3 x 1,0) mm ²	0,49	18,1	2	16 x (3 x 1,0) mm ²	2,12	30,9	4	8 x (2 x 0,5) mm ²	0,45	18,3	2
12 x (3 x 1,0) mm ²	0,70	21,4	3	11.) TEXOMENT – PVC, I/OAM, PVC, SWA, PVC				12 x (2 x 0,5) mm ²	0,58	20,8	3
16 x (3 x 1,0) mm ²	0,89	23,6	3	2 x (2 x 0,5) mm ²	0,41	14,2	0	16 x (2 x 0,5) mm ²	0,76	23,3	3
7.) TEXOMENT – PVC, I/OAM, PVC				4 x (2 x 0,5) mm ²	0,60	15,5	0	20 x (2 x 0,5) mm ²	0,88	25,0	3
2 x (2 x 0,5) mm ²	0,13	10,0	0	8 x (2 x 0,5) mm ²	0,85	19,9	1	24 x (2 x 0,5) mm ²	1,01	26,8	4
4 x (2 x 0,5) mm ²	0,18	11,3	1	12 x (2 x 0,5) mm ²	1,19	22,4	2	36 x (2 x 0,5) mm ²	1,42	31,9	4
8 x (2 x 0,5) mm ²	0,31	14,6	2	16 x (2 x 0,5) mm ²	1,37	25,7	2	50 x (2 x 0,5) mm ²	1,89	36,2	5
12 x (2 x 0,5) mm ²	0,42	17,1	2	20 x (2 x 0,5) mm ²	1,74	27,7	4	2 x (2 x 1,0) mm ²	0,27	15,1	2
16 x (2 x 0,5) mm ²	0,53	19,7	2	24 x (2 x 0,5) mm ²	1,93	29,5	4	4 x (2 x 1,0) mm ²	0,37	16,8	2
20 x (2 x 0,5) mm ²	0,63	21,3	3	36 x (2 x 0,5) mm ²	2,49	35,0	5	8 x (2 x 1,0) mm ²	0,61	21,3	3
24 x (2 x 0,5) mm ²	0,74	23,1	3	2 x (2 x 1,0) mm ²	0,61	16,0	0				
				4 x (2 x 1,0) mm ²	0,75	18,1	1				

NOTE: OAM = Overall Aluminium Mylar, SWA = Steel Wire Armoured, APL = Aluminium Poly Laminated, IOAM = Individually and Overall Alu Mylar Screened

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

TEXOCON CONTROL/TEXOMENT INSTRUMENTATION CABLES

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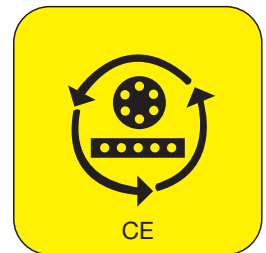
NON FLEXIBLE CABLE - MEDIUM MECHANICAL STRESSES

Please Note: Powermite can offer cables in cross sections from 0,5mm² to 1,5mm² as a standard. Other core and cable constructions to suit the various BUS applications on request.

Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland	Description	Weight Kg/m	O.D. mm	Gland
15.) TEXOMENT – PVC, I/OAM, PVC, APL			16.) TEXOMENT – PVC, I/OAM, PVC, APL			16.) TEXOMENT – PVC, I/OAM, PVC, APL					
12 x (2 x 1,0) mm ²	0,87	24,9	3	2 x (3 x 0,5) mm ²	0,26	14,2	1	2 x (3 x 1,0) mm ²	0,34	16,3	2
16 x (2 x 1,0) mm ²	1,07	28,0	4	4 x (3 x 0,5) mm ²	0,35	15,8	2	4 x (3 x 1,0) mm ²	0,52	19,1	2
20 x (2 x 1,0) mm ²	1,32	30,5	4	8 x (3 x 0,5) mm ²	0,58	20,2	2	8 x (3 x 1,0) mm ²	0,87	24,0	3
24 x (2 x 1,0) mm ²	1,51	32,8	4					12 x (3 x 1,0) mm ²	1,16	28,5	4
				12 x (3 x 0,5) mm ²	0,82	23,8	3	16 x (3 x 1,0) mm ²	1,50	31,5	4
				16 x (3 x 0,5) mm ²	0,98	25,9	3				
				20 x (3 x 0,5) mm ²	1,15	28,3	4				
				24 x (3 x 0,5) mm ²	1,41	31,7	4				

NOTE: **OAM** = Overall Aluminium Mylar, **SWA** = Steel Wire Armoured, **APL** = Aluminium Poly Laminated, **IOAM** = Individually and Overall Alu Mylar Screened

- STATIONARY AND FLEXIBLE - BUS & ETHERNET CABLES



cable-purple



cable-green



cable-purple
or grey



cable-purple



cable-yellow



cable-yellow or
black



Reasons to install a BUS-SYSTEM

To open up the productivity potential of industry, where the lifecycle of products shortens while the product variety increases, the return on investment must be achieved faster than is currently the case. The aim therefore was to develop a network structure to combine all plant segments i.e. machines, offices and command levels into a network, i.e. the ETHERNET. Ethernet is a globally uniform communication standard which ensures the transmission of large volumes of data and the availability of standard components and tools. Industry is working to improve the low real time capability and high jitter rate. All in all, the profinet basics provide a value added process to the appropriate industries.

Cable variety:

Profibus[®]: Dragchain BUS cable L2
Indoor BUS cable L2
Outdoor BUS cable L2
Fieldbus cable for field network
Interbus cable, 2 core system
Interbus cable, incl. power supply

Interbus[™]: Stationary cable
Composite cable
High flex. cable

DeviceNet[™]: Drop cable (small OD) with powersupply cores
Trunk cable (large OD) with powersupply cores

CAN-BUS: Fieldbus cable, 2 core
Fieldbus cable, 2 pair
Fieldbus cable FDP, 2 core
Fieldbus cable FDP, 2 pair
max. Bitrate 1MBit/s

SafetyBUS[®]: Stationary cable
High flex. cable

ASi - Actuator Sensor-interface cable: Transmission cable
Data – Powercable
Aux. – Powercable

NOTE: The above cables are jacketed in PVC, PUR, EPDM or TPE and can carry the approval of UL/CSA and/or DIN 19245T3/EN 50170.
Cables not indicated above are available on request!

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