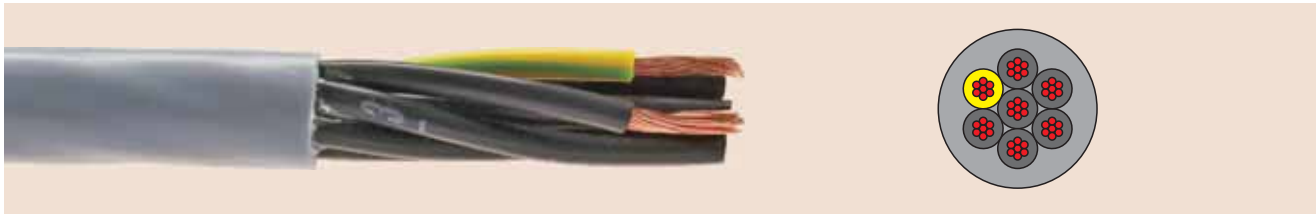


Highflex Control Cable



Technical data

- Special drag chain cables for high mechanical stress
- **Temperature range**
For PVC Sheath:
flexible -5 °C to + 80 °C
fixed installation -30 °C to 80 °C
For TPE and PUR Sheath:
flexible -30 °C to +105 °C
fixed installation -50 °C to 105 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 3000V
- **Minimum bending radius**
For PVC and PUR Sheath:
flexing 7.5 x cable diameter
fixed installation 4 x cable diameter
For TPE Sheath:
flexing 5 x cable diameter
fixed installation 3 x cable diameter
- **Max. movement distance**
100 m for PVC type
450 m for PUR and TPE type
- **Min. cycle**
5 million times for PVC type
10 million times for PUR and TPE type

Cable structure

- Bare copper or tinned copper
- Special TPE core insulation
- Black cores with continuous white numbering
- Green-yellow earth core (3 cores and above)
- Stranding:
<7 cores: cores stranded in a layer with optimal lay-length around a filler as per construction
≥7 cores: cores stranded with optimal lay-length to bunch-construction with low torsion strength, optimal selected short lay-length around a filler
- Screen: 85% coverage of copper braiding (Optional)
- Sheath: PVC/PUR/TPE

Properties

- Low-adhesion
- High property of alternating bending strength
- High resistant to mechanical strain
- Long life durabilities due to low friction-resistance
- Better chemical resistance
- Oil resistance
- High stability
- Halogen free for PUR and TPE type
- UV and ozone resistance for PUR and TPE type
- Tear and abrasion resistance for PUR and TPE type
- Microbe-resistance TPE type

Application

These highly flexible cables are used for permanent application in drag chains for long distances, high and slow speed of movements.

Highflex Control Cable

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	4.3	9.6	40
20	3 G 0.5	4.6	14.4	45
20	4 G 0.5	5.0	24.0	57
20	5 G 0.5	5.4	33.6	66
20	7 G 0.5	8.9	58.0	81
20	12 G 0.5	9.7	86.0	133
20	18 G 0.5	11.8	120.0	169
20	25 G 0.5	13.9		274
18	4 G 0.75	5.6	29.0	63
18	5 G 0.75	6.3	36.0	79
18	7 G 0.75	10.3	50.0	107
18	12 G 0.75	11.0	86.0	169
18	18 G 0.75	13.9	130.0	247
18	25 G 0.75	15.9	180.0	366
18	36 G 0.75	19.6	259.0	540
18	42 G 0.75	21.5	302.0	630

Cable with screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	6.2	30.0	88.0
20	3 G 0.5	6.7	36.0	101.0
20	4 G 0.5	7.2	42.0	116.0
20	5 G 0.5	7.6	48.0	146.0
20	7 G 0.5	11.4	64.0	181.0
20	9 G 0.5	11.4	80.0	219.0
20	12 G 0.5	12.4	105.0	271.0
20	18 G 0.5	14.7	137.0	374.0
20	25 G 0.5	17.1	210.0	542.0
18	2 x 0.75	6.8	40.0	96.0
18	3 G 0.75	7.3	48.0	110.0
18	4 G 0.75	7.8	55.0	140.0
18	5 G 0.75	8.3	66.0	161.0
18	7 G 0.75	12.7	85.0	227.0
18	12 G 0.75	13.7	135.0	317.0
18	18 G 0.75	17.1	190.0	486.0
18	25 G 0.75	19.5	275.0	651.0

G = Green-yellow earth core

Flex P300



Technical data

- Flexible power cables for low-speed movement application; UL 2517
- **Rated temperature** 105 °C
- **Nominal voltage** 300 V
- **Minimum bending radius** fixed 6 x cable diameter

Cable structure

- Bare copper, fine wire, highly flexible
- Flexible PVC core insulation
- Color-coded or number-coded cores
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for low-speed movement application

Application

Flex P300 cable is a flexible power cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Flexing Tester



Flex P300

AWG-no.	NO.cores x cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
22	2 x 0.30	65/0.08	1.65	5.3
22	3 x 0.30	65/0.08	1.65	5.6
22	4 x 0.30	65/0.08	1.65	6.0
22	6 x 0.30	65/0.08	1.65	7.0
22	8 x 0.30	65/0.08	1.65	8.0
22	10 x 0.30	65/0.08	1.65	9.1
22	12 x 0.30	65/0.08	1.65	9.2
22	16 x 0.30	65/0.08	1.65	10.0
22	20 x 0.30	65/0.08	1.65	11.0
22	30 x 0.30	65/0.08	1.65	12.8
20	2 x 0.50	108/0.08	1.96	5.9
20	3 x 0.50	108/0.08	1.96	6.2
20	4 x 0.50	108/0.08	1.96	6.7
20	6 x 0.50	108/0.08	1.96	7.9
20	8 x 0.50	108/0.08	1.96	9.1
20	10 x 0.50	108/0.08	1.96	10.3
20	12 x 0.50	108/0.08	1.96	10.5
20	16 x 0.50	108/0.08	1.96	11.4
20	20 x 0.50	108/0.08	1.96	12.6
20	30 x 0.50	108/0.08	1.96	15.6
18	2 x 0.75	77/0.12	2.42	7.0
18	3 x 0.75	77/0.12	2.42	7.4
18	4 x 0.75	77/0.12	2.42	8.0
18	6 x 0.75	77/0.12	2.42	9.7
18	8 x 0.75	77/0.12	2.42	11.1
18	10 x 0.75	77/0.12	2.42	12.3
18	12 x 0.75	77/0.12	2.42	12.5
18	16 x 0.75	77/0.12	2.42	13.8
18	20 x 0.75	77/0.12	2.42	15.8
18	30 x 0.75	77/0.12	2.42	18.5
16	2 x 1.25	123/0.12	2.74	7.7
16	3 x 1.25	123/0.12	2.74	8.1
16	4 x 1.25	123/0.12	2.74	9.0
16	6 x 1.25	123/0.12	2.74	10.6
16	8 x 1.25	123/0.12	2.74	12.3
16	10 x 1.25	123/0.12	2.74	13.0
16	12 x 1.25	123/0.12	2.74	13.8
16	16 x 1.25	123/0.12	2.74	15.9
14	2 x 2.00	84/0.18	3.11	8.6
14	3 x 2.00	84/0.18	3.11	9.1
14	4 x 2.00	84/0.18	3.11	9.9
14	6 x 2.00	84/0.18	3.11	11.7

Highflex P300



Technical data

- Highly flexible power cables for high-speed movement application
- **Rated temperature** 75 °C
- **Nominal voltage** 300 V
- **Minimum bending radius**
flexing 6 x cable diameter
fixed installation 6 x cable diameter

Cable structure

- Bare copper, fine wire, highly flexible
- Flexible PVC core insulation
- Color-coded or number-coded cores
- Optional filler and tape
- Optional Screen: 85% coverage copper braiding
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for high-speed movement application

Application

Highflex P300 cable is a highly flexible power cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
20	2 x 0.50	7/7/0.12	2.10	6.30
20	3 x 0.50	7/7/0.12	2.10	6.60
20	4 x 0.50	7/7/0.12	2.10	7.20
20	6 x 0.50	7/7/0.12	2.10	8.40
20	8 x 0.50	7/7/0.12	2.10	9.70
20	10 x 0.50	7/7/0.12	2.10	10.80
20	12 x 0.50	7/7/0.12	2.10	11.00
20	16 x 0.50	7/7/0.12	2.10	12.00
20	20 x 0.50	7/7/0.12	2.10	13.20
20	30 x 0.50	7/7/0.12	2.10	15.80
18	2 x 0.75	7/10/0.12	2.50	7.10
18	3 x 0.75	7/10/0.12	2.50	7.50
18	4 x 0.75	7/10/0.12	2.50	8.10
18	6 x 0.75	7/10/0.12	2.50	9.60
18	8 x 0.75	7/10/0.12	2.50	11.10
18	10 x 0.75	7/10/0.12	2.50	12.50
18	12 x 0.75	7/10/0.12	2.50	12.70
18	16 x 0.75	7/10/0.12	2.50	14.10

Highflex P300

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
16	2 x 1.25	7/16/0.12	2.85	7.80
16	3 x 1.25	7/16/0.12	2.85	8.20
16	4 x 1.25	7/16/0.12	2.85	9.00
16	6 x 1.25	7/16/0.12	2.85	10.70
16	8 x 1.25	7/16/0.12	2.85	12.40
16	10 x 1.25	7/16/0.12	2.85	14.10
16	12 x 1.25	7/16/0.12	2.85	14.40
16	16 x 1.25	7/16/0.12	2.85	15.70
14	2 x 2.00	7/25/0.12	3.30	8.70
14	3 x 2.00	7/25/0.12	3.30	9.20
14	4 x 2.00	7/25/0.12	3.30	10.10
14	6 x 2.00	7/25/0.12	3.30	12.00
14	8 x 2.00	7/25/0.12	3.30	14.20
14	10 x 2.00	7/25/0.12	3.30	15.50
14	12 x 2.00	7/25/0.12	3.30	16.20

Cable with screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
20	2 x 0.50	7/7/0.12	2.10	7.10
20	3 x 0.50	7/7/0.12	2.10	7.40
20	4 x 0.50	7/7/0.12	2.10	8.00
20	6 x 0.50	7/7/0.12	2.10	9.20
20	8 x 0.50	7/7/0.12	2.10	10.50
20	10 x 0.50	7/7/0.12	2.10	11.60
20	12 x 0.50	7/7/0.12	2.10	11.80
20	16 x 0.50	7/7/0.12	2.10	12.80
20	20 x 0.50	7/7/0.12	2.10	14.00
20	30 x 0.50	7/7/0.12	2.10	16.70
18	2 x 0.75	7/10/0.12	2.50	7.90
18	3 x 0.75	7/10/0.12	2.50	8.30
18	4 x 0.75	7/10/0.12	2.50	8.90
18	6 x 0.75	7/10/0.12	2.50	10.40
18	8 x 0.75	7/10/0.12	2.50	11.90
18	10 x 0.75	7/10/0.12	2.50	13.50
18	12 x 0.75	7/10/0.12	2.50	13.30
18	16 x 0.75	7/10/0.12	2.50	14.80
16	2 x 1.25	7/16/0.12	2.85	8.60
16	3 x 1.25	7/16/0.12	2.85	9.00
16	4 x 1.25	7/16/0.12	2.85	9.80
16	6 x 1.25	7/16/0.12	2.85	11.50
16	8 x 1.25	7/16/0.12	2.85	13.20
16	10 x 1.25	7/16/0.12	2.85	14.80
16	12 x 1.25	7/16/0.12	2.85	15.10
16	16 x 1.25	7/16/0.12	2.85	16.60
14	2 x 2.00	7/25/0.12	3.30	9.50
14	3 x 2.00	7/25/0.12	3.30	10.00
14	4 x 2.00	7/25/0.12	3.30	10.90
14	6 x 2.00	7/25/0.12	3.30	12.80
14	8 x 2.00	7/25/0.12	3.30	14.90
14	10 x 2.00	7/25/0.12	3.30	16.90
14	12 x 2.00	7/25/0.12	3.30	17.20

Flex P600



Technical data

- Flexible power cables for low-speed movement application
- **Rated temperature** 105 °C
- **Nominal voltage** 600 V
- **Minimum bending radius**
Fixed installation 4 x cable diameter

Cable structure

- Bare copper, fine wire, highly flexible
- Flexible PVC core insulation
- Color-coded or number cores
- Optional tape
- Sheath: PVC

Properties

- Heat resistance
- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for low-speed movement application

Application

Flex P600 cable is a flexible power cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Flex P600

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
18	2 x 0.75	67/0.12	2.7	8.8
18	3 x 0.75	67/0.12	2.7	9.2
18	4 x 0.75	67/0.12	2.7	9.9
18	6 x 0.75	67/0.12	2.7	12.0
18	8 x 0.75	67/0.12	2.7	14.0
18	10 x 0.75	67/0.12	2.7	15.5
18	12 x 0.75	67/0.12	2.7	16.0
18	16 x 0.75	67/0.12	2.7	17.5
18	20 x 0.75	67/0.12	2.7	19.5
18	30 x 0.75	67/0.12	2.7	22.5
16	2 x 1.25	112/0.12	3.1	9.6
16	3 x 1.25	112/0.12	3.1	10.5
16	4 x 1.25	112/0.12	3.1	11.5
16	6 x 1.25	112/0.12	3.1	13.5
16	8 x 1.25	112/0.12	3.1	15.5
16	10 x 1.25	112/0.12	3.1	17.5
16	12 x 1.25	112/0.12	3.1	18.5
16	16 x 1.25	112/0.12	3.1	19.5
16	20 x 1.25	112/0.12	3.1	21.5
16	30 x 1.25	112/0.12	3.1	25.5
14	1 x 2.00	79/0.18	3.4	6.6
14	2 x 2.00	79/0.18	3.4	10.5
14	3 x 2.00	79/0.18	3.4	11.0
14	4 x 2.00	79/0.18	3.4	12.0
14	6 x 2.00	79/0.18	3.4	14.5
14	8 x 2.00	79/0.18	3.4	16.5
14	10 x 2.00	79/0.18	3.4	19.0
14	12 x 2.00	79/0.18	3.4	20.0
14	16 x 2.00	79/0.18	3.4	21.0
14	20 x 2.00	79/0.18	3.4	23.5
14	30 x 2.00	79/0.18	3.4	28.0
12	1 x 3.50	68/0.26	4.3	7.5
12	2 x 3.50	68/0.26	4.1	12.0
12	3 x 3.50	68/0.26	4.1	13.0
12	4 x 3.50	68/0.26	4.1	14.0
10	1 x 5.50	105/0.26	5.1	8.3
10	2 x 5.50	105/0.26	5.1	14.5
10	3 x 5.50	105/0.26	5.1	15.0
10	4 x 5.50	105/0.26	5.1	16.5
8	1 x 8.00	154/0.26	6.3	9.7
8	2 x 8.00	154/0.26	6.1	16.5
8	3 x 8.00	154/0.26	6.1	17.5
8	4 x 8.00	154/0.26	6.1	19.5
6	1 x 14.00	88/0.45	7.9	11.5
6	2 x 14.00	88/0.45	7.9	20.5
6	3 x 14.00	88/0.45	7.9	22.0
6	4 x 14.00	88/0.45	7.9	24.0
4	1 x 22.00	7/20/0.45	10.2	14.5
4	2 x 22.00	7/20/0.45	10.2	26.0
4	3 x 22.00	7/20/0.45	10.2	28.0
4	4 x 22.00	7/20/0.45	10.2	30.5

Highflex P600



Technical data

- Highly flexible power cables for high-speed movement application
- **Temperature range**
-5 °C to + 75 °C
- **Nominal voltage** 600 V
- **Minimum bending radius**
flexing 6 x cable diameter
fixed installation 6 x cable diameter

Cable structure

- Bare copper, fine wire, highly flexible
- Flexible PVC core insulation
- Color-coded or number-coded cores
- Filler and tape
- Optional screen: 85% coverage copper braiding
- Sheath: PVC

Properties

- Heat resistance
- Left/right bending resistance
- Oil resistance
- 45° left/right vibration resistance
- Twist resistance
- Suitable for high-speed movement application

Application

Highflex P600 cable is a highly flexible power cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Cable without Screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
18	2 x 0.75	7/10/0.12	2.90	9.30
18	3 x 0.75	7/10/0.12	2.90	9.80
18	4 x 0.75	7/10/0.12	2.90	10.70
18	6 x 0.75	7/10/0.12	2.90	12.60
18	8 x 0.75	7/10/0.12	2.90	14.60
18	10 x 0.75	7/10/0.12	2.90	15.90
18	12 x 0.75	7/10/0.12	2.90	16.40
18	16 x 0.75	7/10/0.12	2.90	18.10
16	2 x 1.25	7/16/0.12	3.25	10.00
16	3 x 1.25	7/16/0.12	3.25	10.70
16	4 x 1.25	7/16/0.12	3.25	11.60
16	6 x 1.25	7/16/0.12	3.25	13.90
16	8 x 1.25	7/16/0.12	3.25	16.10
16	10 x 1.25	7/16/0.12	3.25	17.50
16	12 x 1.25	7/16/0.12	3.25	18.00
14	2 x 2	7/25/0.12	3.70	11.10
14	3 x 2	7/25/0.12	3.70	11.70
14	4 x 2	7/25/0.12	3.70	12.80
14	6 x 2	7/25/0.12	3.70	15.40
14	8 x 2	7/25/0.12	3.70	17.90
14	10 x 2	7/25/0.12	3.70	19.50
14	12 x 2	7/25/0.12	3.70	20.10

Highflex P600



Cable with screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
18	2 x 0.75	7/10/0.12	2.90	9.90
18	3 x 0.75	7/10/0.12	2.90	10.60
18	4 x 0.75	7/10/0.12	2.90	11.30
18	6 x 0.75	7/10/0.12	2.90	13.20
16	2 x 1.25	7/16/0.12	3.25	10.80
16	3 x 1.25	7/16/0.12	3.25	11.30
16	4 x 1.25	7/16/0.12	3.25	12.40
16	6 x 1.25	7/16/0.12	3.25	14.50

Torsion Strength Tester



Superflex P600



Technical data

- Extremely flexible power cable for drag chain application
- **Temperature range**
-40 °C to + 80 °C
- **Nominal voltage** 600 V
- **Minimum bending radius**
flexing 6 x cable diameter
fixed installation 4 x cable diameter

Cable structure

- Tinned copper, fine wire, extremely flexible
- ETFE core insulation
- Color-coded cores
- Green-yellow earth core (3 cores and above)
- Filler and tape
- Optional screen: 85% coverage of tinned copper braiding
- Sheath: PUR

Properties

- High property of alternating bending strength
- Long life durabilities due to low friction-resistance
- Better chemical resistance
- Oil resistance
- High resistant to mechanical strain
- UV and ozone resistance
- Tear and abrasion resistance
- Suitable for drag chain application

Application

Superflex P600 cable is an extremely flexible power cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Superflex P600

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
22	2 x 0.30	7/10/0.08	1.20	5.3
22	3 x 0.30	7/10/0.08	1.20	5.4
22	4 x 0.30	7/10/0.08	1.20	5.7
22	6 x 0.30	7/10/0.08	1.20	6.5
22	8 x 0.30	7/10/0.08	1.20	7.3
22	10 x 0.30	7/10/0.08	1.20	8.0
20	2 x 0.50	7/15/0.08	1.80	5.6
20	3 x 0.50	7/15/0.08	1.80	5.6
20	4 x 0.50	7/15/0.08	1.80	6.1
20	6 x 0.50	7/15/0.08	1.80	6.9
18	2 x 0.75	7/25/0.03	1.90	6.3
18	3 x 0.75	7/25/0.03	1.90	6.5
18	4 x 0.75	7/25/0.08	1.90	7.0
18	6 x 0.75	7/25/0.08	1.90	8.0
16	2 x 1.25	7/40/0.08	2.16	7.1
16	3 x 1.25	7/40/0.08	2.16	7.4
16	4 x 1.25	7/40/0.08	2.16	8.0
16	6 x 1.25	7/40/0.08	2.16	9.2
14	2 x 2.00	7/71/0.08	2.76	8.3
14	3 x 2.00	7/71/0.08	2.76	8.7
14	4 x 2.00	7/71/0.08	2.76	9.4
14	6 x 2.00	7/71/0.08	2.76	11.0
12	4 x 3.50	7/100/0.08	3.16	10.4
10	4 x 5.50	7/157/0.08	3.86	12.1

Cable with screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
18	2 x 0.75	7/25/0.08	1.76	7.10
18	3 x 0.75	7/25/0.08	1.76	7.30
18	4 x 0.75	7/25/0.08	1.76	7.80
18	6 x 0.75	7/25/0.08	1.76	8.80
16	2 x 1.25	7/40/0.08	2.16	7.90
16	3 x 1.25	7/40/0.08	2.16	8.20
16	4 x 1.25	7/40/0.08	2.16	8.80
16	6 x 1.25	7/40/0.08	2.16	10.10
14	2 x 2.00	7/71/0.08	2.76	9.10
14	3 x 2.00	7/71/0.08	2.76	6.60
14	4 x 2.00	7/71/0.08	2.76	10.30
14	6 x 2.00	7/71/0.08	2.76	12.20
12	4 x 3.50	7/100/0.08	3.16	11.60
10	4 x 5.50	7/157/0.08	3.86	13.30

Flex S30



Technical data

- Flexible power cables for high-speed movement application; UL 20276
- **Rated temperature** 80 °C
- **Nominal voltage** 30 V
- **Minimum bending radius** fixed 6 x cable diameter

Cable structure

- Tinned copper, fine wire, flexible
- Flexible PVC core insulation
- Optional filler and tape
- Optional screen: 80% coverage of tinned copper braiding
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for low speed movement application

Application

Flex S30 cable is a flexible signal cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
26	2 x 0.12	7/0.16	0.88	3.7
26	3 x 0.12	7/0.16	0.88	3.8
26	4 x 0.12	7/0.16	0.88	4.1
26	6 x 0.12	7/0.16	0.88	4.6
26	8 x 0.12	7/0.16	0.88	5.1
26	10 x 0.12	7/0.16	0.88	5.5
26	12 x 0.12	7/0.16	0.88	5.6
26	14 x 0.12	7/0.16	0.88	5.8
26	16 x 0.12	7/0.16	0.88	6.1
26	20 x 0.12	7/0.16	0.88	6.6
24	2 x 0.20	7/0.20	1.11	4.2
24	3 x 0.20	7/0.20	1.11	4.3
24	4 x 0.20	7/0.20	1.11	4.6
24	6 x 0.20	7/0.20	1.11	5.3
24	8 x 0.20	7/0.20	1.11	5.9
24	10 x 0.20	7/0.20	1.11	6.4
24	12 x 0.20	7/0.20	1.11	6.5
24	14 x 0.20	7/0.20	1.11	7.0
24	16 x 0.20	7/0.20	1.11	7.3
24	20 x 0.20	7/0.20	1.11	8.0

Flex S30

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
22	2 x 0.30	7/0.26	1.38	4.7
22	3 x 0.30	7/0.26	1.38	4.9
22	4 x 0.30	7/0.26	1.38	5.3
22	6 x 0.30	7/0.26	1.38	6.1
22	8 x 0.30	7/0.26	1.38	6.9
22	10 x 0.30	7/0.26	1.38	7.5
22	12 x 0.30	7/0.26	1.38	7.8
22	14 x 0.30	7/0.26	1.38	8.2
22	16 x 0.30	7/0.26	1.38	8.6
22	20 x 0.30	7/0.26	1.38	9.4

Cable with screen

AWG-no.	NO. Pairs x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
26	1 x 0.12	7/0.16	0.88	4.30
26	3(core) x 0.12	7/0.16	0.88	4.40
26	2 x 0.12	7/0.16	0.88	5.10
26	4 x 0.12	7/0.16	0.88	5.60
26	5 x 0.12	7/0.16	0.88	6.00
26	6 x 0.12	7/0.16	0.88	6.40
26	7 x 0.12	7/0.16	0.88	6.90
26	8 x 0.12	7/0.16	0.88	7.80
26	10 x 0.12	7/0.16	0.88	8.30
26	12 x 0.12	7/0.16	0.88	8.50
26	15 x 0.12	7/0.16	0.88	9.50
26	18 x 0.12	7/0.16	0.88	10.10
26	20 x 0.12	7/0.16	0.88	11.00
24	1 x 0.20	7/0.20	1.11	4.70
24	3(core) x 0.20	7/0.20	1.11	4.90
24	2 x 0.20	7/0.20	1.11	5.80
24	3 x 0.20	7/0.20	1.11	6.40
24	4 x 0.20	7/0.20	1.11	6.90
24	5 x 0.20	7/0.20	1.11	7.40
24	6 x 0.20	7/0.20	1.11	7.90
24	7 x 0.20	7/0.20	1.11	7.90
24	8 x 0.20	7/0.20	1.11	9.30
24	10 x 0.20	7/0.20	1.11	10.10
24	12 x 0.20	7/0.20	1.11	10.30
24	15 x 0.20	7/0.20	1.11	11.30
24	18 x 0.20	7/0.20	1.11	11.90
24	20 x 0.20	7/0.20	1.11	13.20
22	1 x 0.30	7/0.26	1.38	5.30
22	3(core) x 0.30	7/0.26	1.38	5.50
22	2 x 0.30	7/0.26	1.38	6.60
22	3 x 0.30	7/0.26	1.38	7.40
22	4 x 0.30	7/0.26	1.38	8.00
22	5 x 0.30	7/0.26	1.38	8.60
22	6 x 0.30	7/0.26	1.38	9.50
22	7 x 0.30	7/0.26	1.38	9.50
22	8 x 0.30	7/0.26	1.38	11.10
22	10 x 0.30	7/0.26	1.38	11.80
22	12 x 0.30	7/0.26	1.38	12.30

Highflex S30



Technical data

- Flexible power cables for high-speed movement application; UL 20276
- **Rated temperature** 80 °C
- **Nominal voltage** 30 V
- **Minimum bending radius**
fixed 6 x cable diameter
flexing 6 x cable diameter

Cable structure

- Bare copper, fine wire, highly flexible
- Flexible PVC core insulation
- Optional filler and tape
- Screen: 85% coverage of copper braiding
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for high speed movement application

Application

Highflex S30 cable is a highly flexible signal cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Abrasion Tester



Highflex S30

AWG-no.	NO. Pairs x Cross-sec. mm ²	Conductor Consturction mm	Insulation Diameter mm	Outer Diameter mm
26	1 x 0.12	30/0.08	0.97	4.20
26	2 x 0.12	30/0.08	0.97	5.30
26	3 x 0.12	30/0.08	0.97	6.20
26	4 x 0.12	30/0.08	0.97	6.60
26	5 x 0.12	30/0.08	0.97	7.20
26	6 x 0.12	30/0.08	0.97	7.70
26	8 x 0.12	30/0.08	0.97	8.90
26	10 x 0.12	30/0.08	0.97	9.00
26	12 x 0.12	30/0.08	0.97	9.70
26	15 x 0.12	30/0.08	0.97	10.60
24	1 x 0.2	48/0.08	1.19	4.60
24	2 x 0.2	48/0.08	1.19	6.10
24	3 x 0.2	48/0.08	1.19	7.00
24	4 x 0.2	48/0.08	1.19	7.60
24	5 x 0.2	48/0.08	1.19	8.40
24	6 x 0.2	48/0.08	1.19	8.90
24	8 x 0.2	48/0.08	1.19	10.30
24	10 x 0.2	48/0.08	1.19	11.30
24	15 x 0.2	48/0.08	1.19	12.40
22	1 x 0.3	72/0.08	1.36	4.90
22	2 x 0.3	72/0.08	1.36	6.60
22	3 x 0.3	72/0.08	1.36	7.60
22	4 x 0.3	72/0.08	1.36	8.20
22	5 x 0.3	72/0.08	1.36	9.10
22	6 x 0.3	72/0.08	1.36	9.70
22	8 x 0.3	72/0.08	1.36	11.40
22	10 x 0.3	72/0.08	1.36	12.40
22	15 x 0.3	72/0.08	1.36	13.90
20	1 x 0.5	119/0.08	1.65	5.50
20	2 x 0.5	119/0.08	1.65	7.30
20	3 x 0.5	119/0.08	1.65	8.80
20	4 x 0.5	119/0.08	1.65	9.50
20	5 x 0.5	119/0.08	1.65	10.30
20	6 x 0.5	119/0.08	1.65	11.30
20	8 x 0.5	119/0.08	1.65	13.00

Flex S300



Technical data

- Flexible power cables for low-speed movement application; UL 2517
- **Rated temperature** 105°C
- **Nominal voltage** 300 V
- **Minimum bending radius** fixed 6 x cable diameter

Cable structure

- Bare copper, fine wire flexible
- Flexible PVC core insulation
- Tape
- Screen: 85% coverage of tinned copper braiding
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45°left/right vibration resistance
- Suitable for low speed movement application

Application

Flex S300 cable is a flexible signal cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
22	2 x 0.30	65/0.08	1.65	6.1
22	3 x 0.30	65/0.08	1.65	6.4
22	4 x 0.30	65/0.08	1.65	6.8
22	6 x 0.30	65/0.08	1.65	7.8
22	8 x 0.30	65/0.08	1.65	8.8
22	10 x 0.30	65/0.08	1.65	9.9
20	2 x 0.50	108/0.08	1.96	6.7
20	3 x 0.50	108/0.08	1.96	7.0
20	4 x 0.50	108/0.08	1.96	7.5
20	6 x 0.50	108/0.08	1.96	8.7
20	8 x 0.50	108/0.08	1.96	10.0
20	10 x 0.50	108/0.08	1.96	11.2
18	2 x 0.75	77/0.12	2.42	7.6
18	3 x 0.75	77/0.12	2.42	8.0
18	4 x 0.75	77/0.12	2.42	8.6
18	6 x 0.75	77/0.12	2.42	10.2
18	8 x 0.75	77/0.12	2.42	11.6
18	10 x 0.75	77/0.12	2.42	13.3
16	2 x 1.25	123/0.12	2.74	8.3
16	3 x 1.25	123/0.12	2.74	8.7
16	4 x 1.25	123/0.12	2.74	9.4
16	6 x 1.25	123/0.12	2.74	11.1
16	8 x 1.25	123/0.12	2.74	13.1
16	10 x 1.25	123/0.12	2.74	14.8
14	2 x 2.0	84/0.18	3.11	9.0
14	3 x 2.0	84/0.18	3.11	9.5
14	4 x 2.0	84/0.18	3.11	10.4

Highflex S300



Technical data

- Extremely flexible data cables for drag chain movement application; UL 2464
- **Rated temperature** 80 °C
- **Nominal voltage** 300 V
- **Minimum bending radius**
fixed installation 6 x cable diameter
flexing 6 x cable diameter

Cable structure

- Tinned copper, fine wire, extremely flexible
- Flexible PVC core insulation
- Optional tape
- Optional screen: 85% coverage of tinned copper braiding
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for high speed movement application

Application

Highflex S300 cable is a highly flexible signal cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Horizontal Swag Tester



Highflex S300

Cable without screen

AWG-no.	NO. Cores x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
24	2 x 0.20	45/0.08	1.12	41
24	3 x 0.20	45/0.08	1.12	42
24	4 x 0.20	45/0.08	1.12	45
24	6 x 0.20	45/0.08	1.12	52
24	8 x 0.20	45/0.08	1.12	59
24	10 x 0.20	45/0.08	1.12	63
24	12 x 0.20	45/0.08	1.12	65
24	16 x 0.20	45/0.08	1.12	71
24	20 x 0.20	45/0.08	1.12	78
22	2 x 0.30	65/0.08	1.28	44
22	3 x 0.30	65/0.08	1.28	46
22	4 x 0.30	65/0.08	1.28	49
22	6 x 0.30	65/0.08	1.28	57
22	8 x 0.30	65/0.08	1.28	65
22	10 x 0.30	65/0.08	1.28	70
22	12 x 0.30	65/0.08	1.28	72
20	20 x 0.30	65/0.08	1.28	86
20	2 x 0.50	108/0.08	1.50	48
20	4 x 0.50	108/0.08	1.50	55
20	6 x 0.50	108/0.08	1.50	63
20	8 x 0.50	108/0.08	1.50	73
20	10 x 0.50	108/0.08	1.50	78

Cable with screen

AWG-no.	NO. Pairs x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
24	1 x 0.20	45/0.08	1.12	4.7
24	2 x 0.20	45/0.08	1.12	6.1
24	3 x 0.20	45/0.08	1.12	6.4
24	4 x 0.20	45/0.08	1.12	6.9
24	5 x 0.20	45/0.08	1.12	7.4
24	6 x 0.20	45/0.08	1.12	7.9
24	8 x 0.20	45/0.08	1.12	9.1
24	10 x 0.20	45/0.08	1.12	9.8
24	13 x 0.20	45/0.08	1.12	10.2
24	20 x 0.20	45/0.08	1.12	12.2
22	1 x 0.30	65/0.08	1.28	5.0
22	2 x 0.30	65/0.08	1.28	6.6
22	3 x 0.30	65/0.08	1.28	7.0
22	4 x 0.30	65/0.08	1.28	7.5
22	5 x 0.30	65/0.08	1.28	8.1
22	6 x 0.30	65/0.08	1.28	8.7
22	10 x 0.30	65/0.08	1.28	10.8
20	1 x 0.50	108/0.08	1.50	5.4
20	2 x 0.50	108/0.08	1.50	7.4
20	3 x 0.50	108/0.08	1.50	8.1
20	4 x 0.50	108/0.08	1.50	8.4
20	5 x 0.50	108/0.08	1.50	9.1

Superflex S300



Technical data

- Extremely flexible data cables for drag chain movement application;
UL 2103: 1 Pair; UL 2517 for two or more pairs
- **Rated temperature** 105 °C
- **Nominal voltage** 300 V
- **Minimum bending radius**
fixed installation 4 x cable diameter
flexing 7.5 x cable diameter

Cable structure

- Tinned copper, fine wire, extremely flexible
- Flexible ETFE core insulation
- Sheath: PVC

Properties

- Left/right bending resistance
- Oil resistance
- Twist resistance
- 45° left/right vibration resistance
- Suitable for drag chain movement application

Application

Superflex S300 cable is an extremely flexible signal cable to be used in the drag chain application. It's suitable to be used under the shift and bending stresses in the machines; it's also suitable to be used as a mobile connecting cables for the electrical equipments.

Drag Chain Bending Tester



Superflex S300

Cable without screen

AWG-no.	NO. Pairs x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
24	1 x 0.20	40/0.08	1.0	3.5
24	2 x 0.20	40/0.08	1.0	5.7
24	3 x 0.20	40/0.08	1.0	6.2
24	5 x 0.20	40/0.08	1.0	7.2
24	6 x 0.20	40/0.08	1.0	7.7
24	8 x 0.20	40/0.08	1.0	8.8
24	10 x 0.20	40/0.08	1.0	10.5
24	15 x 0.20	40/0.08	1.0	11.0
24	20 x 0.20	40/0.08	1.0	12.0
22	1 x 0.30	3/20/0.08	1.3	4.1
22	2 x 0.30	3/20/0.08	1.3	6.8
22	3 x 0.30	3/20/0.08	1.3	7.3
22	5 x 0.30	3/20/0.08	1.3	8.7
22	6 x 0.30	3/20/0.08	1.3	9.5
22	8 x 0.30	3/20/0.08	1.3	11.0
22	10 x 0.30	3/20/0.08	1.3	12.5
22	15 x 0.30	3/20/0.08	1.3	14.0
22	20 x 0.30	3/20/0.08	1.3	15.5
20	1 x 0.50	3/33/0.08	1.6	4.7
20	2 x 0.50	3/33/0.08	1.6	7.9
20	3 x 0.50	3/33/0.08	1.6	8.9
20	5 x 0.50	3/33/0.08	1.6	11.0
20	6 x 0.50	3/33/0.08	1.6	11.5
20	8 x 0.50	3/33/0.08	1.6	13.5
20	10 x 0.50	3/33/0.08	1.6	16.0
20	15 x 0.50	3/33/0.08	1.6	17.0
20	20 x 0.50	3/33/0.08	1.6	19.5

Cable with screen

AWG-no.	NO. Pairs x Cross-sec. mm ²	Conductor Construction mm	Insulation Diameter mm	Outer Diameter mm
24	1 x 0.20	40/0.08	1.0	4.0
24	2 x 0.20	40/0.08	1.0	6.2
24	3 x 0.20	40/0.08	1.0	6.7
24	5 x 0.20	40/0.08	1.0	7.7
24	6 x 0.20	40/0.08	1.0	8.2
24	8 x 0.20	40/0.08	1.0	9.3
24	10 x 0.20	40/0.08	1.0	11.0
24	15 x 0.20	40/0.08	1.0	11.5
24	20 x 0.20	40/0.08	1.0	12.5
22	1 x 0.30	3/20/0.08	1.3	4.6
22	2 x 0.30	3/20/0.08	1.3	7.3
22	3 x 0.30	3/20/0.08	1.3	7.8
22	5 x 0.30	3/20/0.08	1.3	9.2
22	6 x 0.30	3/20/0.08	1.3	10.0
22	8 x 0.30	3/20/0.08	1.3	11.5
22	10 x 0.30	3/20/0.08	1.3	13.0
22	15 x 0.30	3/20/0.08	1.3	14.5
22	20 x 0.30	3/20/0.08	1.3	16.0
20	1 x 0.50	3/33/0.08	1.6	5.4
20	2 x 0.50	3/33/0.08	1.6	8.4
20	3 x 0.50	3/33/0.08	1.6	9.4
20	5 x 0.50	3/33/0.08	1.6	11.5
20	6 x 0.50	3/33/0.08	1.6	12.5
20	8 x 0.50	3/33/0.08	1.6	15.0
20	10 x 0.50	3/33/0.08	1.6	16.5
20	15 x 0.50	3/33/0.08	1.6	17.5
20	20 x 0.50	3/33/0.08	1.6	20.0