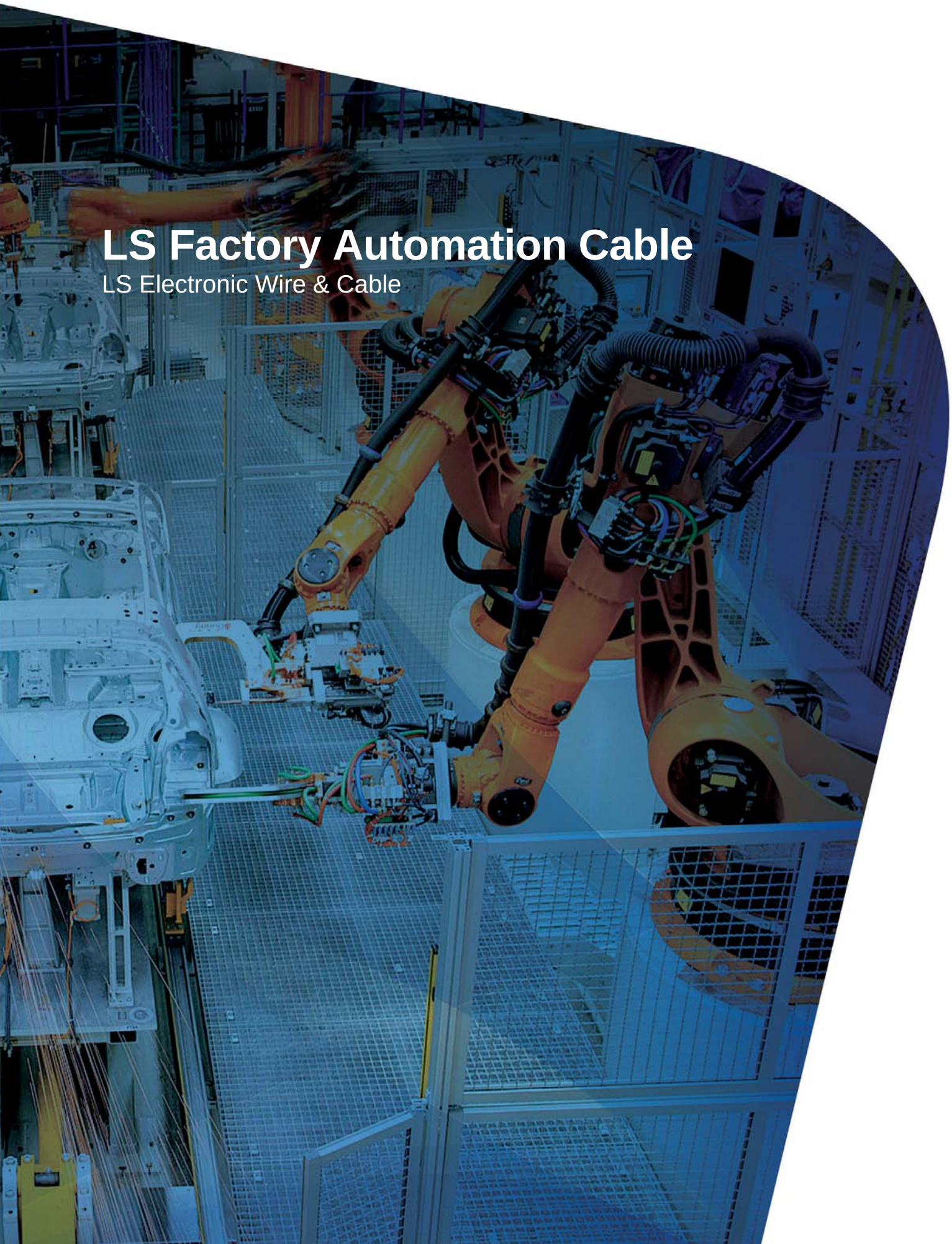
LS Cable
Leading Solution



LS Factory Automation Cable

LS Electronic Wire & Cable

Leading Solution

LG Cable, LG Industrial Systems and LG-Nikko Copper,
Gaon Cable, E1 and Yesco are starting with
a new name, Leading Solution, LS.

New Dream, New Start

To become a leader in the competitive global market, LG has been divided into three groups, electronics and chemicals for LG, energy and distribution for GS, Industrial electric · electronics and material for LS based on their business specialties.

LS' main companies, such as LS cable, LS industrial systems, LS-Nikko copper, Gaon cable, E1 and Yesco, are ranked as No.1 in their respective industry. However, LS won't just sit back, satisfied with being the best in Korea. We will pave the way for becoming the world's best in industrial electric · electronics and material industry with the new CI, LS.

Your good partner LG Cable is making a fresh start as LS Cable

LS Cable is No. 1 cable maker in Korea and its business fields are telecommunication, electric power, components & materials and machinery. Also, LS Cable is creating new businesses particularly in component and materials industry. LS Cable makes its best to accomplish the vision, 'Your No.1 Creative Partner' and be one of the world leaders with high technology and best level of service.

LS Factory Automation Cable

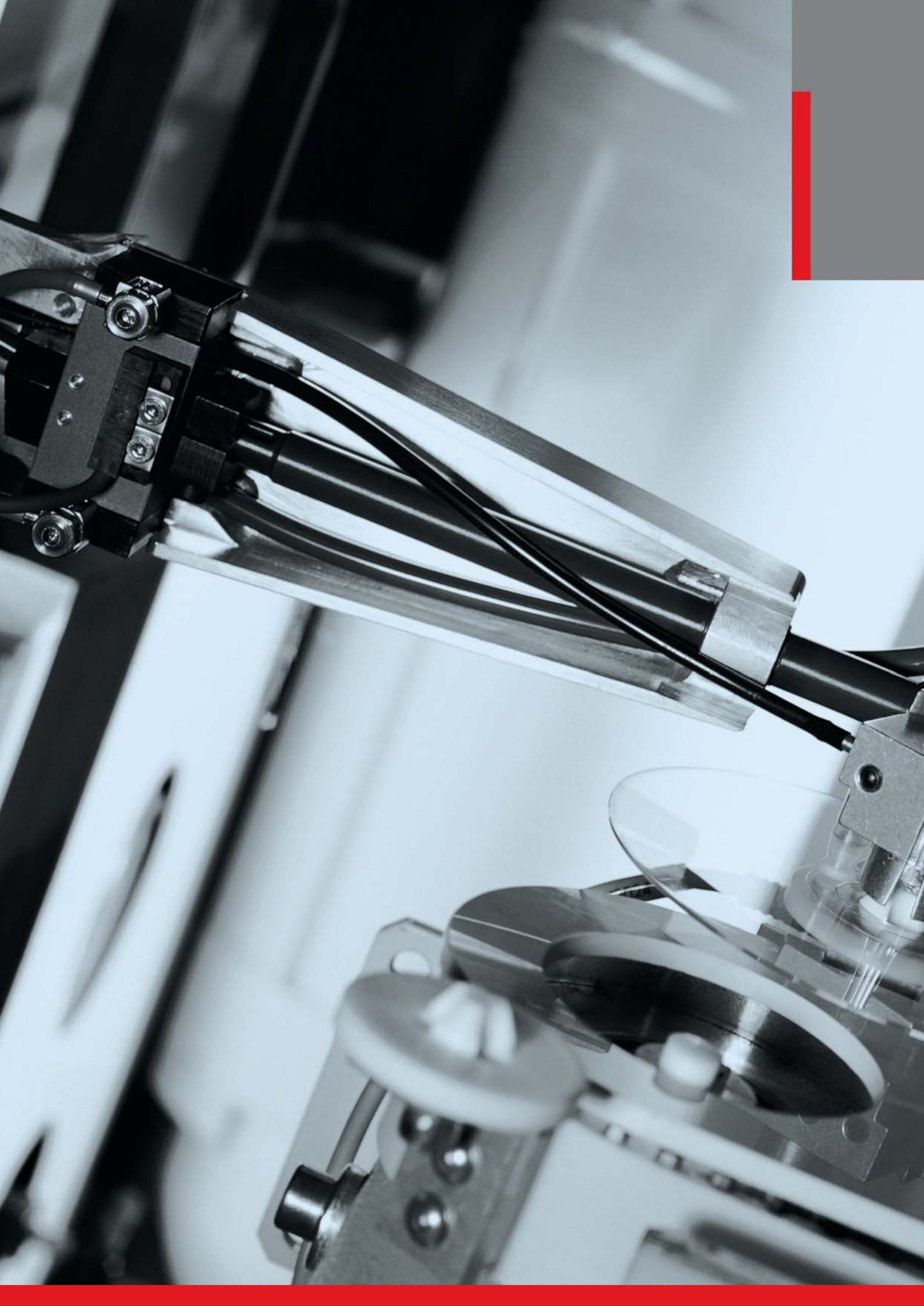
LS Electronic Wire & Cable

To address the ever-changing demands in everyday life as well as in the industry, LS Cable never stops researching, designing, developing, and manufacturing products with the higher level of quality.

Our commitment to develop and deliver solutions to address our customers' needs and challenges keep our technology on the cutting edge and our know-how in the field more valuable, which our clients highly appreciate.

Contents (Cables)

Contents (Technical Data)



Find out what LS Factory Automation Cable can do to your FA system.

ROVV

ROVV-SB

RoHS CE UL SPA

ROVV

Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable between the main body and the control system used for the industrial robots and used for the low speed cable chains for manufacturing automatic machine.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Specially formulated soft PVC insulation and the sheath improve the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Special Polyvinyl Chloride (PVC)
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10 MΩ, km
- Minimum Bending radius : Overall diameter X 10

ROVV

Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	1.08	3.9	4.0
3	0.2	40 / 0.08	0.58	1.08	4.1	3.5
4	0.2	40 / 0.08	0.58	1.08	4.4	2.8
5	0.2	40 / 0.08	0.58	1.08	4.7	2.7
6	0.2	40 / 0.08	0.58	1.08	5.1	2.5
7	0.2	40 / 0.08	0.58	1.08	5.5	2.4
8	0.2	40 /0.08	0.58	1.08	5.8	2.3
9	0.2	40 / 0.08	0.58	1.08	6.2	2.2
10	0.2	40 / 0.08	0.58	1.08	6.3	2.2
12	0.2	40 / 0.08	0.58	1.08	6.4	2.1
15	0.2	40 / 0.08	0.58	1.08	7.1	2.1
20	0.2	40 / 0.08	0.58	1.08	7.8	1.9
25	0.2	40 / 0.08	0.58	1.08	8.6	1.9
30	0.2	40 / 0.08	0.58	1.08	9.1	1.8
40	0.2	40 / 0.08	0.58	1.08	10.5	1.6
50	0.2	40 / 0.08	0.58	1.08	11.4	1.2

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.32	4.5	4.8
3	0.3	60 / 0.08	0.72	1.32	4.7	4.2
4	0.3	60 / 0.08	0.72	1.32	5.0	3.4
5	0.3	60 / 0.08	0.72	1.32	5.4	3.2
6	0.3	60 / 0.08	0.72	1.32	5.9	2.9
7	0.3	60 / 0.08	0.72	1.32	6.3	2.8
8	0.3	60 / 0.08	0.72	1.32	6.8	2.7
9	0.3	60 / 0.08	0.72	1.32	7.2	2.6
10	0.3	60 / 0.08	0.72	1.32	7.3	2.6
12	0.3	60 / 0.08	0.72	1.32	7.5	2.5
15	0.3	60 / 0.08	0.72	1.32	8.3	2.5
20	0.3	60 / 0.08	0.72	1.32	9.2	2.3
25	0.3	60 / 0.08	0.72	1.32	10.2	2.2
30	0.3	60 / 0.08	0.72	1.32	10.8	2.1
40	0.3	60 / 0.08	0.72	1.32	12.5	1.9
50	0.3	60 / 0.08	0.72	1.32	13.6	1.4

ROVV

Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.84	5.6	6.4
3	0.5	7 / 14 / 0.08	1.04	1.84	5.9	5.6
4	0.5	7 / 14 / 0.08	1.04	1.84	6.4	4.5
5	0.5	7 / 14 / 0.08	1.04	1.84	7.0	4.2
6	0.5	7 / 14 / 0.08	1.04	1.84	7.6	3.9
7	0.5	7 / 14 / 0.08	1.04	1.84	8.2	3.8
8	0.5	7 / 14 / 0.08	1.04	1.84	8.8	3.6
9	0.5	7 / 14 / 0.08	1.04	1.84	9.4	3.5
10	0.5	7 / 14 / 0.08	1.04	1.84	9.5	3.4
12	0.5	7 / 14 / 0.08	1.04	1.84	9.8	3.4
15	0.5	7 / 14 / 0.08	1.04	1.84	10.9	3.3
20	0.5	7 / 14 / 0.08	1.04	1.84	12.2	3.0
25	0.5	7 / 14 / 0.08	1.04	1.84	13.5	3.0
30	0.5	7 / 14 / 0.08	1.04	1.84	14.4	2.8
40	0.5	7 / 14 / 0.08	1.04	1.84	16.8	2.5
50	0.5	7 / 14 / 0.08	1.04	1.84	18.3	1.8

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	2.04	6.0	8.8
3	0.75	7 / 20 / 0.08	1.24	2.04	6.3	7.7
4	0.75	7 / 20 / 0.08	1.24	2.04	6.9	6.2
5	0.75	7 / 20 / 0.08	1.24	2.04	7.5	5.8
6	0.75	7 / 20 / 0.08	1.24	2.04	8.2	5.4
7	0.75	7 / 20 / 0.08	1.24	2.04	8.9	5.2
8	0.75	7 / 20 / 0.08	1.24	2.04	9.6	5.0
9	0.75	7 / 20 / 0.08	1.24	2.04	10.2	4.8
10	0.75	7 / 20 / 0.08	1.24	2.04	10.4	4.7
12	0.75	7 / 20 / 0.08	1.24	2.04	10.7	4.6
15	0.75	7 / 20 / 0.08	1.24	2.04	12.0	4.5
20	0.75	7 / 20 / 0.08	1.24	2.04	13.3	4.2
25	0.75	7 / 20 / 0.08	1.24	2.04	14.8	4.1
30	0.75	7 / 20 / 0.08	1.24	2.04	15.7	3.9
40	0.75	7 / 20 / 0.08	1.24	2.04	18.4	3.4
50	0.75	7 / 20 / 0.08	1.24	2.04	20.1	2.5

ROVV

Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.65	7.3	12.8
3	1.25	7 / 40 / 0.08	1.75	2.65	7.8	11.2
4	1.25	7 / 40 / 0.08	1.75	2.65	8.5	9.0
5	1.25	7 / 40 / 0.08	1.75	2.65	9.3	8.5
6	1.25	7 / 40 / 0.08	1.75	2.65	10.2	7.8
7	1.25	7 / 40 / 0.08	1.75	2.65	11.1	7.5
8	1.25	7 / 40 / 0.08	1.75	2.65	12.0	7.2
9	1.25	7 / 40 / 0.08	1.75	2.65	12.8	7.0
10	1.25	7 / 40 / 0.08	1.75	2.65	13.0	6.9
12	1.25	7 / 40 / 0.08	1.75	2.65	13.5	6.7
15	1.25	7 / 40 / 0.08	1.75	2.65	15.1	6.6
20	1.25	7 / 40 / 0.08	1.75	2.65	16.8	6.1
25	1.25	7 / 40 / 0.08	1.75	2.65	18.8	5.9
30	1.25	7 / 40 / 0.08	1.75	2.65	20.0	5.6
40	1.25	7 / 40 / 0.08	1.75	2.65	23.5	5.0
50	1.25	7 / 40 / 0.08	1.75	2.65	25.7	3.7

Core Type 2 SQ / 3.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.15	8.4	18.4
3	2	7 / 60 / 0.08	2.15	3.15	8.9	16.1
4	2	7 / 60 / 0.08	2.15	3.15	9.8	12.9
5	2	7 / 60 / 0.08	2.15	3.15	10.8	12.2
6	2	7 / 60 / 0.08	2.15	3.15	11.8	11.3
7	2	7 / 60 / 0.08	2.15	3.15	12.9	10.8
8	2	7 / 60 / 0.08	2.15	3.15	13.9	10.4
9	2	7 / 60 / 0.08	2.15	3.15	14.9	10.1
10	2	7 / 60 / 0.08	2.15	3.15	15.2	9.9
12	2	7 / 60 / 0.08	2.15	3.15	15.7	9.7
15	2	7 / 60 / 0.08	2.15	3.15	17.6	9.4
2	3.5	19 / 40 / 0.08	2.92	4.52	11.4	25.6
3	3.5	19 / 40 / 0.08	2.92	4.52	12.1	22.4
4	3.5	19 / 40 / 0.08	2.92	4.52	13.4	17.9
5	3.5	19 / 40 / 0.08	2.92	4.52	14.8	17.0
6	3.5	19 / 40 / 0.08	2.92	4.52	16.2	15.7

RoHS CE UL SP

ROVV

Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable between the main body and the control system used for the industrial robots and used for the low speed cable chains for manufacturing automatic machine.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Specially formulated soft PVC insulation and the sheath improve the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Special Polyvinyl Chloride (PVC)
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10 MΩ, km
- Minimum Bending radius : Overall diameter X 10

ROVV

Flexible Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	1.08	5.7	2.8
3	0.2	40 / 0.08	0.58	1.08	6.0	2.5
4	0.2	40 / 0.08	0.58	1.08	6.5	2.3
5	0.2	40 / 0.08	0.58	1.08	7.2	2.2
6	0.2	40 / 0.08	0.58	1.08	7.4	2.1
7	0.2	40 / 0.08	0.58	1.08	8.1	2.1
8	0.2	40 / 0.08	0.58	1.08	8.6	2.0
9	0.2	40 / 0.08	0.58	1.08	9.1	2.0
10	0.2	40 / 0.08	0.58	1.08	9.2	1.9
12	0.2	40 / 0.08	0.58	1.08	9.5	1.9
15	0.2	40 / 0.08	0.58	1.08	10.7	1.8
20	0.2	40 / 0.08	0.58	1.08	11.6	1.6
25	0.2	40 / 0.08	0.58	1.08	12.8	1.2
30	0.2	40 / 0.08	0.58	1.08	13.5	1.2
40	0.2	40 / 0.08	0.58	1.08	15.2	1.2
50	0.2	40 / 0.08	0.58	1.08	16.6	1.2

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.32	6.6	3.4
3	0.3	60 / 0.08	0.72	1.32	7.0	2.9
4	0.3	60 / 0.08	0.72	1.32	7.6	2.7
5	0.3	60 / 0.08	0.72	1.32	8.4	2.6
6	0.3	60 / 0.08	0.72	1.32	8.7	2.5
7	0.3	60 / 0.08	0.72	1.32	9.6	2.5
8	0.3	60 / 0.08	0.72	1.32	10.2	2.4
9	0.3	60 / 0.08	0.72	1.32	10.7	2.3
10	0.3	60 / 0.08	0.72	1.32	10.9	2.3
12	0.3	60 / 0.08	0.72	1.32	11.3	2.2
15	0.3	60 / 0.08	0.72	1.32	12.7	2.1
20	0.3	60 / 0.08	0.72	1.32	13.9	1.9
25	0.3	60 / 0.08	0.72	1.32	15.3	1.4
30	0.3	60 / 0.08	0.72	1.32	16.1	1.4
40	0.3	60 / 0.08	0.72	1.32	18.3	1.4
50	0.3	60 / 0.08	0.72	1.32	20.0	1.4

ROVV

Flexible Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.84	8.6	4.5
3	0.5	7 / 14 / 0.08	1.04	1.84	9.1	3.9
4	0.5	7 / 14 / 0.08	1.04	1.84	9.9	3.6
5	0.5	7 / 14 / 0.08	1.04	1.84	11.1	3.4
6	0.5	7 / 14 / 0.08	1.04	1.84	11.5	3.4
7	0.5	7 / 14 / 0.08	1.04	1.84	12.7	3.3
8	0.5	7 / 14 / 0.08	1.04	1.84	13.5	3.2
9	0.5	7 / 14 / 0.08	1.04	1.84	14.3	3.1
10	0.5	7 / 14 / 0.08	1.04	1.84	14.5	3.0
12	0.5	7 / 14 / 0.08	1.04	1.84	15.1	3.0
15	0.5	7 / 14 / 0.08	1.04	1.84	17.1	2.8
20	0.5	7 / 14 / 0.08	1.04	1.84	18.7	2.5
25	0.5	7 / 14 / 0.08	1.04	1.84	20.8	1.8
30	0.5	7 / 14 / 0.08	1.04	1.84	21.9	1.8
40	0.5	7 / 14 / 0.08	1.04	1.84	24.9	1.8
50	0.5	7 / 14 / 0.08	1.04	1.84	27.2	1.8

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	2.04	9.3	6.2
3	0.75	7 / 20 / 0.08	1.24	2.04	9.9	5.4
4	0.75	7 / 20 / 0.08	1.24	2.04	10.9	5.0
5	0.75	7 / 20 / 0.08	1.24	2.04	12.2	4.7
6	0.75	7 / 20 / 0.08	1.24	2.04	12.6	4.6
7	0.75	7 / 20 / 0.08	1.24	2.04	13.9	4.5
8	0.75	7 / 20 / 0.08	1.24	2.04	14.8	4.4
9	0.75	7 / 20 / 0.08	1.24	2.04	15.7	4.3
10	0.75	7 / 20 / 0.08	1.24	2.04	15.9	4.2
12	0.75	7 / 20 / 0.08	1.24	2.04	16.6	4.1
15	0.75	7 / 20 / 0.08	1.24	2.04	18.8	3.9
20	0.75	7 / 20 / 0.08	1.24	2.04	20.5	3.4
25	0.75	7 / 20 / 0.08	1.24	2.04	22.8	2.5
30	0.75	7 / 20 / 0.08	1.24	2.04	24.1	2.5
40	0.75	7 / 20 / 0.08	1.24	2.04	27.4	2.5
50	0.75	7 / 20 / 0.08	1.24	2.04	30.0	2.5

ROVV

Flexible Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.65	11.6	9.0
3	1.25	7 / 40 / 0.08	1.75	2.65	12.4	7.8
4	1.25	7 / 40 / 0.08	1.75	2.65	13.6	7.2
5	1.25	7 / 40 / 0.08	1.75	2.65	15.3	6.9
6	1.25	7 / 40 / 0.08	1.75	2.65	15.9	6.7
7	1.25	7 / 40 / 0.08	1.75	2.65	17.6	6.6
8	1.25	7 / 40 / 0.08	1.75	2.65	18.8	6.4
9	1.25	7 / 40 / 0.08	1.75	2.65	19.9	6.2
10	1.25	7 / 40 / 0.08	1.75	2.65	20.2	6.1
12	1.25	7 / 40 / 0.08	1.75	2.65	21.1	5.9
2	2	7 / 60 / 0.08	2.15	3.15	13.5	12.9
3	2	7 / 60 / 0.08	2.15	3.15	14.4	11.3
4	2	7 / 60 / 0.08	2.15	3.15	15.9	10.4
5	2	7 / 60 / 0.08	2.15	3.15	17.9	9.9
6	2	7 / 60 / 0.08	2.15	3.15	18.6	9.7
7	2	7 / 60 / 0.08	2.15	3.15	20.7	9.4

RoHS

ROVV-SB

Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable between the main body and the control system used for the industrial robots and used for the low speed cable chains for manufacturing automatic machine.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Specially formulated soft PVC insulation and the sheath improve the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Special Polyvinyl Chloride (PVC)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10 MΩ, km
- Minimum Bending radius : Overall diameter X 12.5

ROVV-SB

Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	1.08	4.6	4.0
3	0.2	40 / 0.08	0.58	1.08	4.8	3.5
4	0.2	40 / 0.08	0.58	1.08	5.1	2.8
5	0.2	40 / 0.08	0.58	1.08	5.4	2.7
6	0.2	40 / 0.08	0.58	1.08	5.7	2.5
7	0.2	40 / 0.08	0.58	1.08	6.1	2.4
8	0.2	40 / 0.08	0.58	1.08	6.5	2.3
9	0.2	40 / 0.08	0.58	1.08	6.8	2.2
10	0.2	40 / 0.08	0.58	1.08	6.9	2.2
12	0.2	40 / 0.08	0.58	1.08	7.1	2.1
15	0.2	40 / 0.08	0.58	1.08	7.7	2.1
20	0.2	40 / 0.08	0.58	1.08	8.4	1.9
25	0.2	40 / 0.08	0.58	1.08	9.2	1.9
30	0.2	40 / 0.08	0.58	1.08	9.7	1.8
40	0.2	40 / 0.08	0.58	1.08	11.2	1.6
50	0.2	40 / 0.08	0.58	1.08	12.1	1.2

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.32	5.1	4.8
3	0.3	60 / 0.08	0.72	1.32	5.3	4.2
4	0.3	60 / 0.08	0.72	1.32	5.7	3.4
5	0.3	60 / 0.08	0.72	1.32	6.1	3.2
6	0.3	60 / 0.08	0.72	1.32	6.5	2.9
7	0.3	60 / 0.08	0.72	1.32	7.0	2.8
8	0.3	60 / 0.08	0.72	1.32	7.4	2.7
9	0.3	60 / 0.08	0.72	1.32	7.8	2.6
10	0.3	60 / 0.08	0.72	1.32	8.0	2.6
12	0.3	60 / 0.08	0.72	1.32	8.2	2.5
15	0.3	60 / 0.08	0.72	1.32	8.9	2.5
20	0.3	60 / 0.08	0.72	1.32	9.8	2.3
25	0.3	60 / 0.08	0.72	1.32	10.8	2.2
30	0.3	60 / 0.08	0.72	1.32	11.4	2.1
40	0.3	60 / 0.08	0.72	1.32	13.2	1.9
50	0.3	60 / 0.08	0.72	1.32	14.3	1.4

ROVV-SB

Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.84	6.2	6.4
3	0.5	7 / 14 / 0.08	1.04	1.84	6.5	5.6
4	0.5	7 / 14 / 0.08	1.04	1.84	7.0	4.5
5	0.5	7 / 14 / 0.08	1.04	1.84	7.6	4.2
6	0.5	7 / 14 / 0.08	1.04	1.84	8.2	3.9
7	0.5	7 / 14 / 0.08	1.04	1.84	8.8	3.8
8	0.5	7 / 14 / 0.08	1.04	1.84	9.4	3.6
9	0.5	7 / 14 / 0.08	1.04	1.84	10.0	3.5
10	0.5	7 / 14 / 0.08	1.04	1.84	10.2	3.4
12	0.5	7 / 14 / 0.08	1.04	1.84	10.5	3.4
15	0.5	7 / 14 / 0.08	1.04	1.84	11.6	3.3
20	0.5	7 / 14 / 0.08	1.04	1.84	12.9	3.0
25	0.5	7 / 14 / 0.08	1.04	1.84	14.3	3.0
30	0.5	7 / 14 / 0.08	1.04	1.84	15.2	2.8
40	0.5	7 / 14 / 0.08	1.04	1.84	17.8	2.5
50	0.5	7 / 14 / 0.08	1.04	1.84	19.3	1.8

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	2.04	6.7	8.8
3	0.75	7 / 20 / 0.08	1.24	2.04	7.0	7.7
4	0.75	7 / 20 / 0.08	1.24	2.04	7.6	6.2
5	0.75	7 / 20 / 0.08	1.24	2.04	8.2	5.8
6	0.75	7 / 20 / 0.08	1.24	2.04	8.9	5.4
7	0.75	7 / 20 / 0.08	1.24	2.04	9.5	5.2
8	0.75	7 / 20 / 0.08	1.24	2.04	10.2	5.0
9	0.75	7 / 20 / 0.08	1.24	2.04	10.9	4.8
10	0.75	7 / 20 / 0.08	1.24	2.04	11.1	4.7
12	0.75	7 / 20 / 0.08	1.24	2.04	11.4	4.6
15	0.75	7 / 20 / 0.08	1.24	2.04	12.7	4.5
20	0.75	7 / 20 / 0.08	1.24	2.04	14.1	4.2
25	0.75	7 / 20 / 0.08	1.24	2.04	15.7	4.1
30	0.75	7 / 20 / 0.08	1.24	2.04	16.6	3.9
40	0.75	7 / 20 / 0.08	1.24	2.04	19.4	3.4
50	0.75	7 / 20 / 0.08	1.24	2.04	21.1	2.5

ROVV-SB

Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.65	8.0	12.8
3	1.25	7 / 40 / 0.08	1.75	2.65	8.4	11.2
4	1.25	7 / 40 / 0.08	1.75	2.65	9.1	9.0
5	1.25	7 / 40 / 0.08	1.75	2.65	10.0	8.5
6	1.25	7 / 40 / 0.08	1.75	2.65	10.8	7.8
7	1.25	7 / 40 / 0.08	1.75	2.65	11.7	7.5
8	1.25	7 / 40 / 0.08	1.75	2.65	12.7	7.2
9	1.25	7 / 40 / 0.08	1.75	2.65	13.6	7.0
10	1.25	7 / 40 / 0.08	1.75	2.65	13.8	6.9
12	1.25	7 / 40 / 0.08	1.75	2.65	14.2	6.7
15	1.25	7 / 40 / 0.08	1.75	2.65	15.9	6.6
20	1.25	7 / 40 / 0.08	1.75	2.65	17.8	6.1
25	1.25	7 / 40 / 0.08	1.75	2.65	19.7	5.9
30	1.25	7 / 40 / 0.08	1.75	2.65	20.9	5.6
40	1.25	7 / 40 / 0.08	1.75	2.65	24.4	5.0
50	1.25	7 / 40 / 0.08	1.75	2.65	26.6	3.7

Core Type 2 SQ / 3.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.15	9.1	18.4
3	2	7 / 60 / 0.08	2.15	3.15	9.6	16.1
4	2	7 / 60 / 0.08	2.15	3.15	10.4	12.9
5	2	7 / 60 / 0.08	2.15	3.15	11.4	12.2
6	2	7 / 60 / 0.08	2.15	3.15	12.6	11.3
7	2	7 / 60 / 0.08	2.15	3.15	13.6	10.8
8	2	7 / 60 / 0.08	2.15	3.15	14.8	10.4
9	2	7 / 60 / 0.08	2.15	3.15	15.8	10.1
10	2	7 / 60 / 0.08	2.15	3.15	16.1	9.9
12	2	7 / 60 / 0.08	2.15	3.15	16.6	9.7
15	2	7 / 60 / 0.08	2.15	3.15	18.6	9.4
2	3.5	19 / 40 / 0.08	2.92	4.52	12.0	25.6
3	3.5	19 / 40 / 0.08	2.92	4.52	12.9	22.4
4	3.5	19 / 40 / 0.08	2.92	4.52	14.1	17.9
5	3.5	19 / 40 / 0.08	2.92	4.52	15.6	17.0
6	3.5	19 / 40 / 0.08	2.92	4.52	17.1	15.7

RoHS

ROVV-SB

Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable between the main body and the control system used for the industrial robots and used for the low speed cable chains for manufacturing automatic machine.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Specially formulated soft PVC insulation and the sheath improve the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Special Polyvinyl Chloride (PVC)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10 MΩ, km
- Minimum Bending radius : Overall diameter X 12.5

ROVV-SB

Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	1.08	6.3	2.8
3	0.2	40 / 0.08	0.58	1.08	6.6	2.5
4	0.2	40 / 0.08	0.58	1.08	7.1	2.3
5	0.2	40 / 0.08	0.58	1.08	7.8	2.2
6	0.2	40 / 0.08	0.58	1.08	8.1	2.1
7	0.2	40 / 0.08	0.58	1.08	8.8	2.1
8	0.2	40 / 0.08	0.58	1.08	9.2	2.0
9	0.2	40 / 0.08	0.58	1.08	9.7	2.0
10	0.2	40 / 0.08	0.58	1.08	9.8	1.9
12	0.2	40 / 0.08	0.58	1.08	10.2	1.9
15	0.2	40 / 0.08	0.58	1.08	11.3	1.8
20	0.2	40 / 0.08	0.58	1.08	12.4	1.6
25	0.2	40 / 0.08	0.58	1.08	13.6	1.2
30	0.2	40 / 0.08	0.58	1.08	14.3	1.2
40	0.2	40 / 0.08	0.58	1.08	16.1	1.2
50	0.2	40 / 0.08	0.58	1.08	17.5	1.2

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.32	7.2	3.4
3	0.3	60 / 0.08	0.72	1.32	7.6	2.9
4	0.3	60 / 0.08	0.72	1.32	8.2	2.7
5	0.3	60 / 0.08	0.72	1.32	9.1	2.6
6	0.3	60 / 0.08	0.72	1.32	9.4	2.5
7	0.3	60 / 0.08	0.72	1.32	10.2	2.5
8	0.3	60 / 0.08	0.72	1.32	10.8	2.4
9	0.3	60 / 0.08	0.72	1.32	11.4	2.3
10	0.3	60 / 0.08	0.72	1.32	11.5	2.3
12	0.3	60 / 0.08	0.72	1.32	11.9	2.2
15	0.3	60 / 0.08	0.72	1.32	13.5	2.1
20	0.3	60 / 0.08	0.72	1.32	14.7	1.9
25	0.3	60 / 0.08	0.72	1.32	16.2	1.4
30	0.3	60 / 0.08	0.72	1.32	17.1	1.4
40	0.3	60 / 0.08	0.72	1.32	19.3	1.4
50	0.3	60 / 0.08	0.72	1.32	21.0	1.4

ROVV-SB

Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.84	9.2	4.5
3	0.5	7 / 14 / 0.08	1.04	1.84	9.7	3.9
4	0.5	7 / 14 / 0.08	1.04	1.84	10.6	3.6
5	0.5	7 / 14 / 0.08	1.04	1.84	11.8	3.4
6	0.5	7 / 14 / 0.08	1.04	1.84	12.2	3.4
7	0.5	7 / 14 / 0.08	1.04	1.84	13.5	3.3
8	0.5	7 / 14 / 0.08	1.04	1.84	14.3	3.2
9	0.5	7 / 14 / 0.08	1.04	1.84	15.2	3.1
10	0.5	7 / 14 / 0.08	1.04	1.84	15.4	3.0
12	0.5	7 / 14 / 0.08	1.04	1.84	16.0	3.0
15	0.5	7 / 14 / 0.08	1.04	1.84	18.1	2.8
20	0.5	7 / 14 / 0.08	1.04	1.84	19.7	2.5
25	0.5	7 / 14 / 0.08	1.04	1.84	21.7	1.8
30	0.5	7 / 14 / 0.08	1.04	1.84	22.8	1.8
40	0.5	7 / 14 / 0.08	1.04	1.84	25.8	1.8
50	0.5	7 / 14 / 0.08	1.04	1.84	28.2	1.8

Pair Type 0.75 SQ

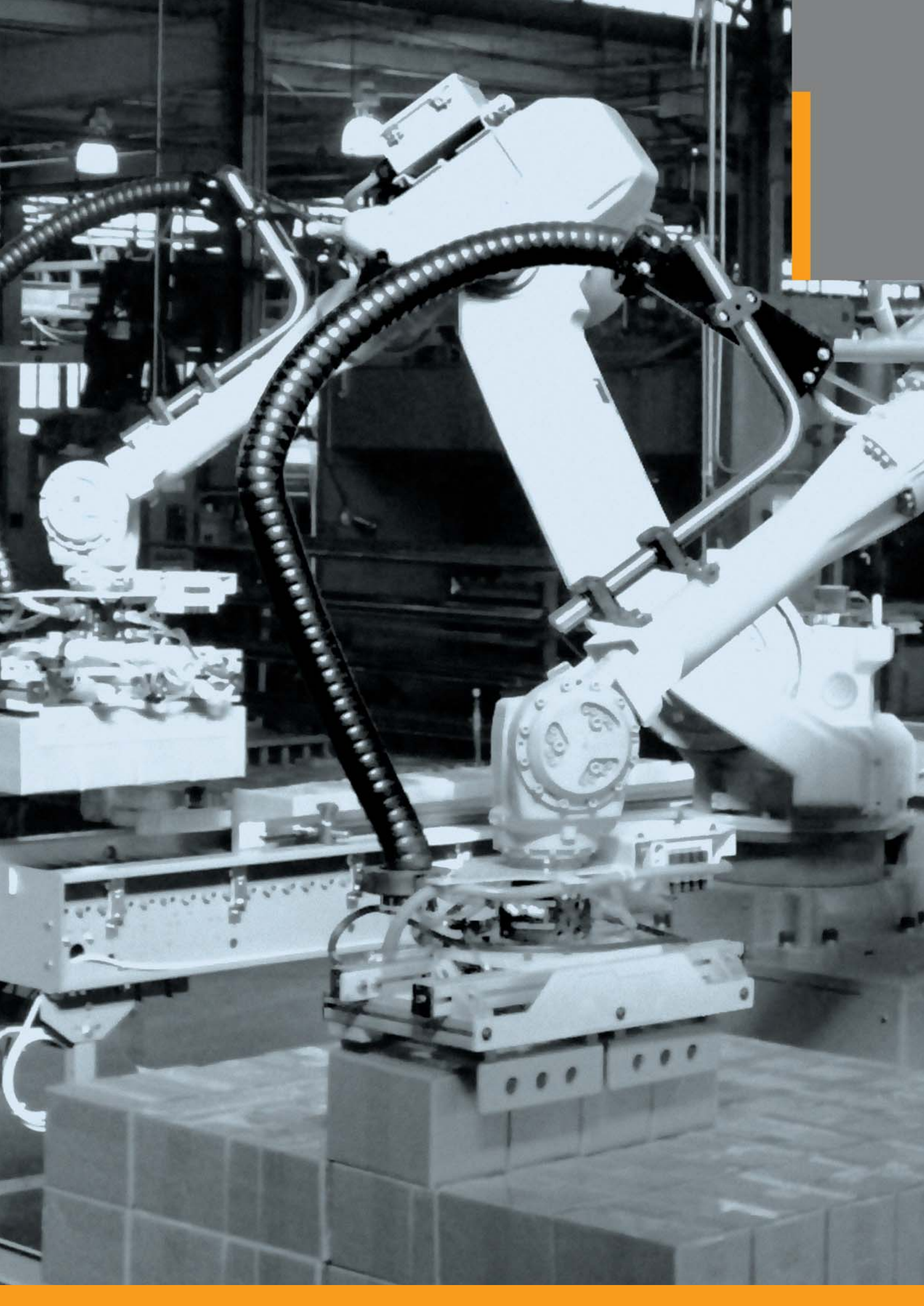
Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	2.04	10.0	6.2
3	0.75	7 / 20 / 0.08	1.24	2.04	10.5	5.4
4	0.75	7 / 20 / 0.08	1.24	2.04	11.5	5.0
5	0.75	7 / 20 / 0.08	1.24	2.04	12.9	4.7
6	0.75	7 / 20 / 0.08	1.24	2.04	13.4	4.6
7	0.75	7 / 20 / 0.08	1.24	2.04	14.8	4.5
8	0.75	7 / 20 / 0.08	1.24	2.04	15.7	4.4
9	0.75	7 / 20 / 0.08	1.24	2.04	16.6	4.3
10	0.75	7 / 20 / 0.08	1.24	2.04	16.9	4.2
12	0.75	7 / 20 / 0.08	1.24	2.04	17.6	4.1
15	0.75	7 / 20 / 0.08	1.24	2.04	19.8	3.9
20	0.75	7 / 20 / 0.08	1.24	2.04	21.5	3.4
25	0.75	7 / 20 / 0.08	1.24	2.04	23.8	2.5
30	0.75	7 / 20 / 0.08	1.24	2.04	25.0	2.5
40	0.75	7 / 20 / 0.08	1.24	2.04	28.3	2.5
50	0.75	7 / 20 / 0.08	1.24	2.04	31.0	2.5

ROVV-SB

Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.65	12.4	9.0
3	1.25	7 / 40 / 0.08	1.75	2.65	13.1	7.8
4	1.25	7 / 40 / 0.08	1.75	2.65	14.5	7.2
5	1.25	7 / 40 / 0.08	1.75	2.65	16.2	6.9
6	1.25	7 / 40 / 0.08	1.75	2.65	16.9	6.7
7	1.25	7 / 40 / 0.08	1.75	2.65	18.6	6.6
8	1.25	7 / 40 / 0.08	1.75	2.65	19.7	6.4
9	1.25	7 / 40 / 0.08	1.75	2.65	20.9	6.2
10	1.25	7 / 40 / 0.08	1.75	2.65	21.2	6.1
12	1.25	7 / 40 / 0.08	1.75	2.65	22.0	5.9
2	2	7 / 60 / 0.08	2.15	3.15	14.4	9.0
3	2	7 / 60 / 0.08	2.15	3.15	15.3	7.8
4	2	7 / 60 / 0.08	2.15	3.15	16.9	7.2
5	2	7 / 60 / 0.08	2.15	3.15	18.9	6.9
6	2	7 / 60 / 0.08	2.15	3.15	19.6	6.7
7	2	7 / 60 / 0.08	2.15	3.15	21.6	6.6



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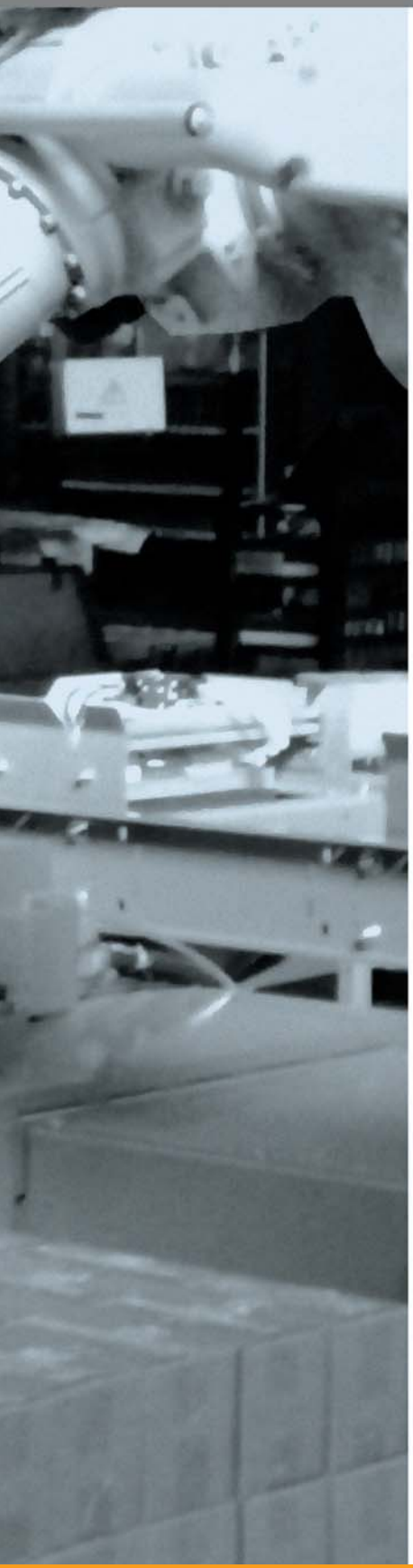


ROIREV

ROIREV-SB

RoHS CE UL SP

ROIREV

High Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the cable chains or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Specially formulated soft PVC sheath improves the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. ㎞
- Minimum Bending radius : Overall diameter X 7.5

ROIREV

High Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	3.7	4.8
3	0.2	40 / 0.08	0.58	0.98	3.9	4.2
4	0.2	40 / 0.08	0.58	0.98	4.2	3.4
5	0.2	40 / 0.08	0.58	0.98	4.5	3.2
6	0.2	40 / 0.08	0.58	0.98	4.8	2.9
7	0.2	40 / 0.08	0.58	0.98	5.1	2.8
8	0.2	40 / 0.08	0.58	0.98	5.4	2.7
9	0.2	40 / 0.08	0.58	0.98	5.7	2.6
10	0.2	40 / 0.08	0.58	0.98	5.8	2.6
12	0.2	40 / 0.08	0.58	0.98	6.0	2.5
15	0.2	40 / 0.08	0.58	0.98	6.6	2.5
20	0.2	40 / 0.08	0.58	0.98	7.2	2.3
25	0.2	40 / 0.08	0.58	0.98	8.0	2.2
30	0.2	40 / 0.08	0.58	0.98	8.4	2.1
40	0.2	40 / 0.08	0.58	0.98	9.7	1.9
50	0.2	40 / 0.08	0.58	0.98	10.5	1.4

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.2	6.4
3	0.3	60 / 0.08	0.72	1.22	4.4	5.6
4	0.3	60 / 0.08	0.72	1.22	4.8	4.5
5	0.3	60 / 0.08	0.72	1.22	5.2	4.2
6	0.3	60 / 0.08	0.72	1.22	5.6	3.9
7	0.3	60 / 0.08	0.72	1.22	6.0	3.8
8	0.3	60 / 0.08	0.72	1.22	6.4	3.6
9	0.3	60 / 0.08	0.72	1.22	6.8	3.5
10	0.3	60 / 0.08	0.72	1.22	6.9	3.4
12	0.3	60 / 0.08	0.72	1.22	7.1	3.4
15	0.3	60 / 0.08	0.72	1.22	7.8	3.3
20	0.3	60 / 0.08	0.72	1.22	8.6	3.0
25	0.3	60 / 0.08	0.72	1.22	9.5	3.0
30	0.3	60 / 0.08	0.72	1.22	10.1	2.8
40	0.3	60 / 0.08	0.72	1.22	11.7	2.5
50	0.3	60 / 0.08	0.72	1.22	12.7	1.8

ROIREV

High Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.1	8.0
3	0.5	7 / 14 / 0.08	1.04	1.64	5.4	7.0
4	0.5	7 / 14 / 0.08	1.04	1.64	5.9	5.6
5	0.5	7 / 14 / 0.08	1.04	1.64	6.4	5.3
6	0.5	7 / 14 / 0.08	1.04	1.64	6.9	4.9
7	0.5	7 / 14 / 0.08	1.04	1.64	7.5	4.7
8	0.5	7 / 14 / 0.08	1.04	1.64	8.0	4.5
9	0.5	7 / 14 / 0.08	1.04	1.64	8.5	4.4
10	0.5	7 / 14 / 0.08	1.04	1.64	8.7	4.3
12	0.5	7 / 14 / 0.08	1.04	1.64	9.0	4.2
15	0.5	7 / 14 / 0.08	1.04	1.64	9.9	4.1
20	0.5	7 / 14 / 0.08	1.04	1.64	11.0	3.8
25	0.5	7 / 14 / 0.08	1.04	1.64	12.2	3.7
30	0.5	7 / 14 / 0.08	1.04	1.64	13.0	3.5
40	0.5	7 / 14 / 0.08	1.04	1.64	15.1	3.1
50	0.5	7 / 14 / 0.08	1.04	1.64	16.5	2.3

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	5.6	11.2
3	0.75	7 / 20 / 0.08	1.24	1.84	5.9	9.8
4	0.75	7 / 20 / 0.08	1.24	1.84	6.4	7.8
5	0.75	7 / 20 / 0.08	1.24	1.84	7.0	7.4
6	0.75	7 / 20 / 0.08	1.24	1.84	7.6	6.9
7	0.75	7 / 20 / 0.08	1.24	1.84	8.2	6.6
8	0.75	7 / 20 / 0.08	1.24	1.84	8.8	6.3
9	0.75	7 / 20 / 0.08	1.24	1.84	9.4	6.2
10	0.75	7 / 20 / 0.08	1.24	1.84	9.5	6.0
12	0.75	7 / 20 / 0.08	1.24	1.84	9.8	5.9
15	0.75	7 / 20 / 0.08	1.24	1.84	10.9	5.7
20	0.75	7 / 20 / 0.08	1.24	1.84	12.2	5.3
25	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.2
30	0.75	7 / 20 / 0.08	1.24	1.84	14.4	4.9
40	0.75	7 / 20 / 0.08	1.24	1.84	16.8	4.3
50	0.75	7 / 20 / 0.08	1.24	1.84	18.3	3.2

ROIREV

High Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	6.9	15.2
3	1.25	7 / 40 / 0.08	1.75	2.45	7.3	13.3
4	1.25	7 / 40 / 0.08	1.75	2.45	8.0	10.6
5	1.25	7 / 40 / 0.08	1.75	2.45	8.7	10.1
6	1.25	7 / 40 / 0.08	1.75	2.45	9.5	9.3
7	1.25	7 / 40 / 0.08	1.75	2.45	10.4	8.9
8	1.25	7 / 40 / 0.08	1.75	2.45	11.2	8.6
9	1.25	7 / 40 / 0.08	1.75	2.45	12.0	8.4
10	1.25	7 / 40 / 0.08	1.75	2.45	12.2	8.2
12	1.25	7 / 40 / 0.08	1.75	2.45	12.6	8.0
15	1.25	7 / 40 / 0.08	1.75	2.45	14.0	7.8
20	1.25	7 / 40 / 0.08	1.75	2.45	15.7	7.2
25	1.25	7 / 40 / 0.08	1.75	2.45	17.5	7.0
30	1.25	7 / 40 / 0.08	1.75	2.45	18.6	6.7
40	1.25	7 / 40 / 0.08	1.75	2.45	21.8	5.9
50	1.25	7 / 40 / 0.08	1.75	2.45	23.9	4.4

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.05	8.2	21.6
3	2	7 / 60 / 0.08	2.15	3.05	8.7	18.9
4	2	7 / 60 / 0.08	2.15	3.05	9.5	15.1
5	2	7 / 60 / 0.08	2.15	3.05	10.5	14.3
6	2	7 / 60 / 0.08	2.15	3.05	11.5	13.2
7	2	7 / 60 / 0.08	2.15	3.05	12.5	12.7
8	2	7 / 60 / 0.08	2.15	3.05	13.5	12.2
9	2	7 / 60 / 0.08	2.15	3.05	14.5	11.9
10	2	7 / 60 / 0.08	2.15	3.05	14.8	11.6
12	2	7 / 60 / 0.08	2.15	3.05	15.3	11.3
15	2	7 / 60 / 0.08	2.15	3.05	17.1	11.1
2	3.5	19 / 40 / 0.08	2.92	3.82	9.9	28.0
3	3.5	19 / 40 / 0.08	2.92	3.82	10.5	24.5
4	3.5	19 / 40 / 0.08	2.92	3.82	11.5	19.6
5	3.5	19 / 40 / 0.08	2.92	3.82	12.7	18.6
6	3.5	19 / 40 / 0.08	2.92	3.82	14.0	17.2

RoHS

ROIREV

High Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the cable chains or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Specially formulated soft PVC sheath improves the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 7.5

ROIREV

High Flexible Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	5.3	3.4
3	0.2	40 / 0.08	0.58	0.98	5.6	2.9
4	0.2	40 / 0.08	0.58	0.98	6.0	2.7
5	0.2	40 / 0.08	0.58	0.98	6.7	2.6
6	0.2	40 / 0.08	0.58	0.98	6.9	2.5
7	0.2	40 / 0.08	0.58	0.98	7.5	2.5
8	0.2	40 / 0.08	0.58	0.98	8.0	2.4
9	0.2	40 / 0.08	0.58	0.98	8.4	2.3
10	0.2	40 / 0.08	0.58	0.98	8.5	2.3
12	0.2	40 / 0.08	0.58	0.98	8.8	2.2
15	0.2	40 / 0.08	0.58	0.98	9.9	2.1
20	0.2	40 / 0.08	0.58	0.98	10.7	1.9
25	0.2	40 / 0.08	0.58	0.98	11.8	1.4
30	0.2	40 / 0.08	0.58	0.98	12.4	1.4
40	0.2	40 / 0.08	0.58	0.98	14.0	1.4
50	0.2	40 / 0.08	0.58	0.98	15.3	1.4

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.2	4.5
3	0.3	60 / 0.08	0.72	1.22	6.6	3.9
4	0.3	60 / 0.08	0.72	1.22	7.1	3.6
5	0.3	60 / 0.08	0.72	1.22	7.9	3.4
6	0.3	60 / 0.08	0.72	1.22	8.2	3.4
7	0.3	60 / 0.08	0.72	1.22	9.0	3.3
8	0.3	60 / 0.08	0.72	1.22	9.5	3.2
9	0.3	60 / 0.08	0.72	1.22	10.0	3.1
10	0.3	60 / 0.08	0.72	1.22	10.2	3.0
12	0.3	60 / 0.08	0.72	1.22	10.6	3.0
15	0.3	60 / 0.08	0.72	1.22	11.9	2.8
20	0.3	60 / 0.08	0.72	1.22	12.9	2.5
25	0.3	60 / 0.08	0.72	1.22	14.3	1.8
30	0.3	60 / 0.08	0.72	1.22	15.0	1.8
40	0.3	60 / 0.08	0.72	1.22	17.0	1.8
50	0.3	60 / 0.08	0.72	1.22	18.6	1.8

ROIREV

High Flexible Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	7.8	5.6
3	0.5	7 / 14 / 0.08	1.04	1.64	8.3	4.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.0	4.5
5	0.5	7 / 14 / 0.08	1.04	1.64	10.1	4.3
6	0.5	7 / 14 / 0.08	1.04	1.64	10.5	4.2
7	0.5	7 / 14 / 0.08	1.04	1.64	11.5	4.1
8	0.5	7 / 14 / 0.08	1.04	1.64	12.2	4.0
9	0.5	7 / 14 / 0.08	1.04	1.64	12.9	3.9
10	0.5	7 / 14 / 0.08	1.04	1.64	13.1	3.8
12	0.5	7 / 14 / 0.08	1.04	1.64	13.6	3.7
15	0.5	7 / 14 / 0.08	1.04	1.64	15.4	3.5
20	0.5	7 / 14 / 0.08	1.04	1.64	16.8	3.1
25	0.5	7 / 14 / 0.08	1.04	1.64	18.7	2.3
30	0.5	7 / 14 / 0.08	1.04	1.64	19.7	2.3
40	0.5	7 / 14 / 0.08	1.04	1.64	22.3	2.3
50	0.5	7 / 14 / 0.08	1.04	1.64	24.4	2.3

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	8.6	7.8
3	0.75	7 / 20 / 0.08	1.24	1.84	9.1	6.9
4	0.75	7 / 20 / 0.08	1.24	1.84	9.9	6.3
5	0.75	7 / 20 / 0.08	1.24	1.84	11.1	6.0
6	0.75	7 / 20 / 0.08	1.24	1.84	11.5	5.9
7	0.75	7 / 20 / 0.08	1.24	1.84	12.7	5.7
8	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.6
9	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.5
10	0.75	7 / 20 / 0.08	1.24	1.84	14.5	5.3
12	0.75	7 / 20 / 0.08	1.24	1.84	15.1	5.2
15	0.75	7 / 20 / 0.08	1.24	1.84	17.1	4.9
20	0.75	7 / 20 / 0.08	1.24	1.84	18.7	4.3
25	0.75	7 / 20 / 0.08	1.24	1.84	20.8	3.2
30	0.75	7 / 20 / 0.08	1.24	1.84	21.9	3.2
40	0.75	7 / 20 / 0.08	1.24	1.84	24.9	3.2
50	0.75	7 / 20 / 0.08	1.24	1.84	27.2	3.2

ROIREV

High Flexible Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	10.9	10.6
3	1.25	7 / 40 / 0.08	1.75	2.45	11.5	9.3
4	1.25	7 / 40 / 0.08	1.75	2.45	12.7	8.6
5	1.25	7 / 40 / 0.08	1.75	2.45	14.3	8.2
6	1.25	7 / 40 / 0.08	1.75	2.45	14.8	8.0
7	1.25	7 / 40 / 0.08	1.75	2.45	16.4	7.8
8	1.25	7 / 40 / 0.08	1.75	2.45	17.5	7.6
9	1.25	7 / 40 / 0.08	1.75	2.45	18.5	7.4
10	1.25	7 / 40 / 0.08	1.75	2.45	18.8	7.2
12	1.25	7 / 40 / 0.08	1.75	2.45	19.6	7.0
2	2	7 / 60 / 0.08	2.15	3.05	13.1	15.1
3	2	7 / 60 / 0.08	2.15	3.05	14.0	13.2
4	2	7 / 60 / 0.08	2.15	3.05	15.4	12.2
5	2	7 / 60 / 0.08	2.15	3.05	17.4	11.6
6	2	7 / 60 / 0.08	2.15	3.05	18.1	11.3
7	2	7 / 60 / 0.08	2.15	3.05	20.0	11.1

RoHS

ROIREV-SB

High Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the cable chains or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Specially formulated soft PVC sheath improves the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing –5℃ ~ +80℃ / Fixed –20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 10

ROIREV-SB

High Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	4.4	4.8
3	0.2	40 / 0.08	0.58	0.98	4.5	4.2
4	0.2	40 / 0.08	0.58	0.98	4.8	3.4
5	0.2	40 / 0.08	0.58	0.98	5.1	3.2
6	0.2	40 / 0.08	0.58	0.98	5.4	2.9
7	0.2	40 / 0.08	0.58	0.98	5.8	2.8
8	0.2	40 / 0.08	0.58	0.98	6.1	2.7
9	0.2	40 / 0.08	0.58	0.98	6.4	2.6
10	0.2	40 / 0.08	0.58	0.98	6.5	2.6
12	0.2	40 / 0.08	0.58	0.98	6.6	2.5
15	0.2	40 / 0.08	0.58	0.98	7.2	2.5
20	0.2	40 / 0.08	0.58	0.98	7.9	2.3
25	0.2	40 / 0.08	0.58	0.98	8.6	2.2
30	0.2	40 / 0.08	0.58	0.98	9.0	2.1
40	0.2	40 / 0.08	0.58	0.98	10.3	1.9
50	0.2	40 / 0.08	0.58	0.98	11.1	1.4

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.9	6.4
3	0.3	60 / 0.08	0.72	1.22	5.1	5.6
4	0.3	60 / 0.08	0.72	1.22	5.4	4.5
5	0.3	60 / 0.08	0.72	1.22	5.8	4.2
6	0.3	60 / 0.08	0.72	1.22	6.2	3.9
7	0.3	60 / 0.08	0.72	1.22	6.6	3.8
8	0.3	60 / 0.08	0.72	1.22	7.0	3.6
9	0.3	60 / 0.08	0.72	1.22	7.4	3.5
10	0.3	60 / 0.08	0.72	1.22	7.5	3.4
12	0.3	60 / 0.08	0.72	1.22	7.7	3.4
15	0.3	60 / 0.08	0.72	1.22	8.4	3.3
20	0.3	60 / 0.08	0.72	1.22	9.2	3.0
25	0.3	60 / 0.08	0.72	1.22	10.2	3.0
30	0.3	60 / 0.08	0.72	1.22	10.7	2.8
40	0.3	60 / 0.08	0.72	1.22	12.4	2.5
50	0.3	60 / 0.08	0.72	1.22	13.4	1.8

ROIREV-SB

High Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.8	8.0
3	0.5	7 / 14 / 0.08	1.04	1.64	6.1	7.0
4	0.5	7 / 14 / 0.08	1.04	1.64	6.5	5.6
5	0.5	7 / 14 / 0.08	1.04	1.64	7.0	5.3
6	0.5	7 / 14 / 0.08	1.04	1.64	7.6	4.9
7	0.5	7 / 14 / 0.08	1.04	1.64	8.1	4.7
8	0.5	7 / 14 / 0.08	1.04	1.64	8.7	4.5
9	0.5	7 / 14 / 0.08	1.04	1.64	9.2	4.4
10	0.5	7 / 14 / 0.08	1.04	1.64	9.3	4.3
12	0.5	7 / 14 / 0.08	1.04	1.64	9.6	4.2
15	0.5	7 / 14 / 0.08	1.04	1.64	10.6	4.1
20	0.5	7 / 14 / 0.08	1.04	1.64	11.7	3.8
25	0.5	7 / 14 / 0.08	1.04	1.64	13.0	3.7
30	0.5	7 / 14 / 0.08	1.04	1.64	13.7	3.5
40	0.5	7 / 14 / 0.08	1.04	1.64	16.0	3.1
50	0.5	7 / 14 / 0.08	1.04	1.64	17.5	2.3

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	6.2	11.2
3	0.75	7 / 20 / 0.08	1.24	1.84	6.5	9.8
4	0.75	7 / 20 / 0.08	1.24	1.84	7.0	7.8
5	0.75	7 / 20 / 0.08	1.24	1.84	7.6	7.4
6	0.75	7 / 20 / 0.08	1.24	1.84	8.2	6.9
7	0.75	7 / 20 / 0.08	1.24	1.84	8.8	6.6
8	0.75	7 / 20 / 0.08	1.24	1.84	9.4	6.3
9	0.75	7 / 20 / 0.08	1.24	1.84	10.0	6.2
10	0.75	7 / 20 / 0.08	1.24	1.84	10.2	6.0
12	0.75	7 / 20 / 0.08	1.24	1.84	10.5	5.9
15	0.75	7 / 20 / 0.08	1.24	1.84	11.6	5.7
20	0.75	7 / 20 / 0.08	1.24	1.84	12.9	5.3
25	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.2
30	0.75	7 / 20 / 0.08	1.24	1.84	15.2	4.9
40	0.75	7 / 20 / 0.08	1.24	1.84	17.8	4.3
50	0.75	7 / 20 / 0.08	1.24	1.84	19.3	3.2

ROIREV-SB

High Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	7.5	15.2
3	1.25	7 / 40 / 0.08	1.75	2.45	7.9	13.3
4	1.25	7 / 40 / 0.08	1.75	2.45	8.6	10.6
5	1.25	7 / 40 / 0.08	1.75	2.45	9.4	10.1
6	1.25	7 / 40 / 0.08	1.75	2.45	10.2	9.3
7	1.25	7 / 40 / 0.08	1.75	2.45	11.0	8.9
8	1.25	7 / 40 / 0.08	1.75	2.45	11.8	8.6
9	1.25	7 / 40 / 0.08	1.75	2.45	12.7	8.4
10	1.25	7 / 40 / 0.08	1.75	2.45	12.9	8.2
12	1.25	7 / 40 / 0.08	1.75	2.45	13.3	8.0
15	1.25	7 / 40 / 0.08	1.75	2.45	14.9	7.8
20	1.25	7 / 40 / 0.08	1.75	2.45	16.5	7.2
25	1.25	7 / 40 / 0.08	1.75	2.45	18.4	7.0
30	1.25	7 / 40 / 0.08	1.75	2.45	19.6	6.7
40	1.25	7 / 40 / 0.08	1.75	2.45	22.8	5.9
50	1.25	7 / 40 / 0.08	1.75	2.45	24.8	4.4

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.05	8.8	21.6
3	2	7 / 60 / 0.08	2.15	3.05	9.3	18.9
4	2	7 / 60 / 0.08	2.15	3.05	10.2	15.1
5	2	7 / 60 / 0.08	2.15	3.05	11.1	14.3
6	2	7 / 60 / 0.08	2.15	3.05	12.2	13.2
7	2	7 / 60 / 0.08	2.15	3.05	13.3	12.7
8	2	7 / 60 / 0.08	2.15	3.05	14.3	12.2
9	2	7 / 60 / 0.08	2.15	3.05	15.4	11.9
10	2	7 / 60 / 0.08	2.15	3.05	15.6	11.6
12	2	7 / 60 / 0.08	2.15	3.05	16.1	11.3
15	2	7 / 60 / 0.08	2.15	3.05	18.1	11.1
2	3.5	19 / 40 / 0.08	2.92	3.82	10.5	28.0
3	3.5	19 / 40 / 0.08	2.92	3.82	11.1	24.5
4	3.5	19 / 40 / 0.08	2.92	3.82	12.3	19.6
5	3.5	19 / 40 / 0.08	2.92	3.82	13.5	18.6
6	3.5	19 / 40 / 0.08	2.92	3.82	14.8	17.2

RoHS

ROIREV-SB

High Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the cable chains or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Specially formulated soft PVC sheath improves the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 10

ROIREV-SB

High Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	6.0	3.4
3	0.2	40 / 0.08	0.58	0.98	6.2	2.9
4	0.2	40 / 0.08	0.58	0.98	6.7	2.7
5	0.2	40 / 0.08	0.58	0.98	7.3	2.6
6	0.2	40 / 0.08	0.58	0.98	7.5	2.5
7	0.2	40 / 0.08	0.58	0.98	8.2	2.5
8	0.2	40 / 0.08	0.58	0.98	8.6	2.4
9	0.2	40 / 0.08	0.58	0.98	9.0	2.3
10	0.2	40 / 0.08	0.58	0.98	9.1	2.3
12	0.2	40 / 0.08	0.58	0.98	9.4	2.2
15	0.2	40 / 0.08	0.58	0.98	10.5	2.1
20	0.2	40 / 0.08	0.58	0.98	11.4	1.9
25	0.2	40 / 0.08	0.58	0.98	12.6	1.4
30	0.2	40 / 0.08	0.58	0.98	13.2	1.4
40	0.2	40 / 0.08	0.58	0.98	14.8	1.4
50	0.2	40 / 0.08	0.58	0.98	16.1	1.4

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.9	4.5
3	0.3	60 / 0.08	0.72	1.22	7.2	3.9
4	0.3	60 / 0.08	0.72	1.22	7.8	3.6
5	0.3	60 / 0.08	0.72	1.22	8.6	3.4
6	0.3	60 / 0.08	0.72	1.22	8.8	3.4
7	0.3	60 / 0.08	0.72	1.22	9.6	3.3
8	0.3	60 / 0.08	0.72	1.22	10.2	3.2
9	0.3	60 / 0.08	0.72	1.22	10.7	3.1
10	0.3	60 / 0.08	0.72	1.22	10.8	3.0
12	0.3	60 / 0.08	0.72	1.22	11.2	3.0
15	0.3	60 / 0.08	0.72	1.22	12.6	2.8
20	0.3	60 / 0.08	0.72	1.22	13.7	2.5
25	0.3	60 / 0.08	0.72	1.22	15.2	1.8
30	0.3	60 / 0.08	0.72	1.22	15.9	1.8
40	0.3	60 / 0.08	0.72	1.22	18.0	1.8
50	0.3	60 / 0.08	0.72	1.22	19.6	1.8

ROIREV-SB

High Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	8.4	5.6
3	0.5	7 / 14 / 0.08	1.04	1.64	8.9	4.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.7	4.5
5	0.5	7 / 14 / 0.08	1.04	1.64	10.7	4.3
6	0.5	7 / 14 / 0.08	1.04	1.64	11.1	4.2
7	0.5	7 / 14 / 0.08	1.04	1.64	12.3	4.1
8	0.5	7 / 14 / 0.08	1.04	1.64	13.0	4.0
9	0.5	7 / 14 / 0.08	1.04	1.64	13.7	3.9
10	0.5	7 / 14 / 0.08	1.04	1.64	13.9	3.8
12	0.5	7 / 14 / 0.08	1.04	1.64	14.5	3.7
15	0.5	7 / 14 / 0.08	1.04	1.64	16.3	3.5
20	0.5	7 / 14 / 0.08	1.04	1.64	17.8	3.1
25	0.5	7 / 14 / 0.08	1.04	1.64	19.6	2.3
30	0.5	7 / 14 / 0.08	1.04	1.64	20.5	2.3
40	0.5	7 / 14 / 0.08	1.04	1.64	23.3	2.3
50	0.5	7 / 14 / 0.08	1.04	1.64	25.4	2.3

Pair Type 0.75 SQ

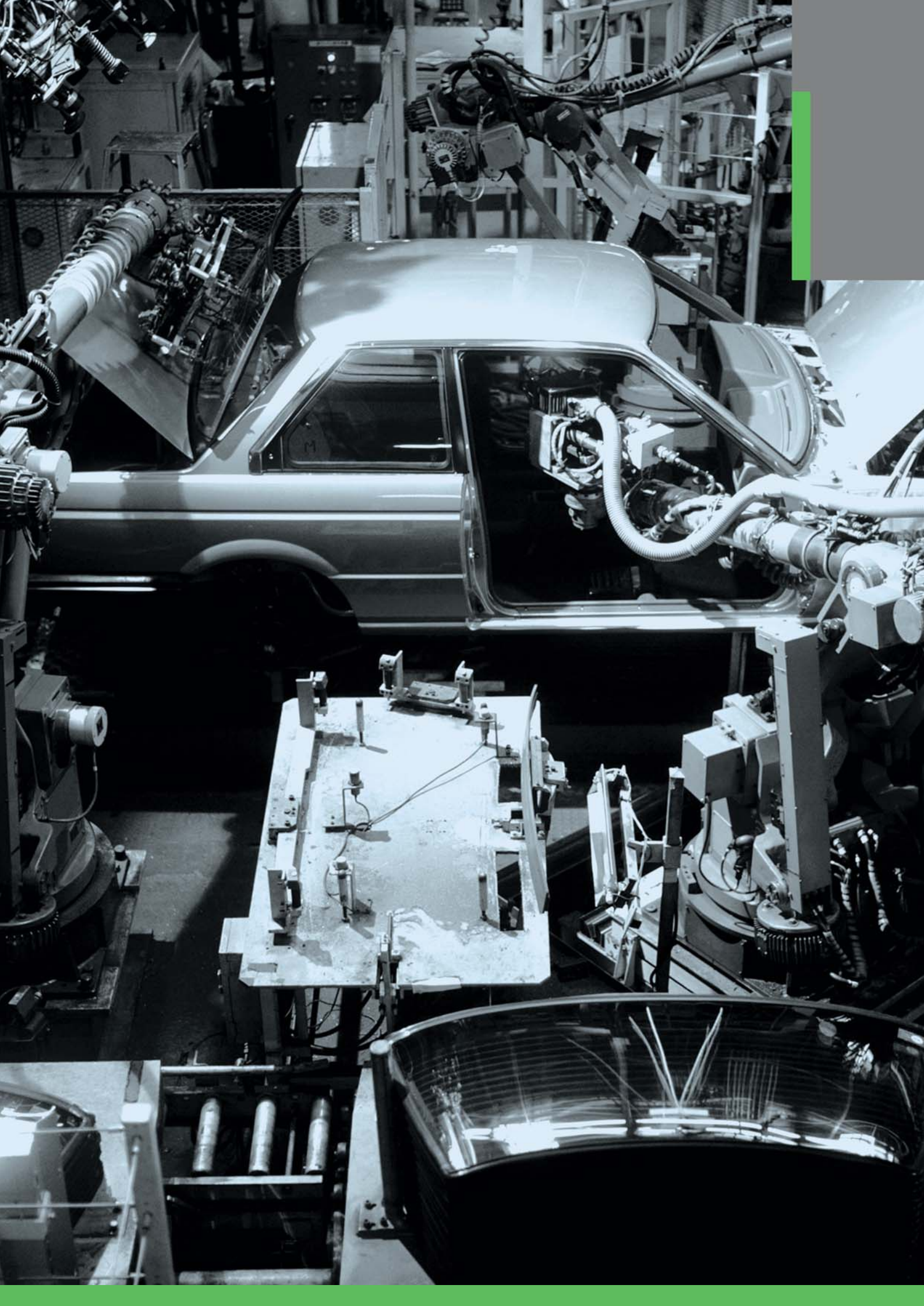
Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	9.2	7.8
3	0.75	7 / 20 / 0.08	1.24	1.84	9.7	6.9
4	0.75	7 / 20 / 0.08	1.24	1.84	10.6	6.3
5	0.75	7 / 20 / 0.08	1.24	1.84	11.8	6.0
6	0.75	7 / 20 / 0.08	1.24	1.84	12.3	5.9
7	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.7
8	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.6
9	0.75	7 / 20 / 0.08	1.24	1.84	15.2	5.5
10	0.75	7 / 20 / 0.08	1.24	1.84	15.4	5.3
12	0.75	7 / 20 / 0.08	1.24	1.84	16.0	5.2
15	0.75	7 / 20 / 0.08	1.24	1.84	18.1	4.9
20	0.75	7 / 20 / 0.08	1.24	1.84	19.7	4.3
25	0.75	7 / 20 / 0.08	1.24	1.84	21.7	3.2
30	0.75	7 / 20 / 0.08	1.24	1.84	22.7	3.2
40	0.75	7 / 20 / 0.08	1.24	1.84	25.8	3.2
50	0.75	7 / 20 / 0.08	1.24	1.84	28.2	3.2

ROIREV-SB

High Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	11.5	10.6
3	1.25	7 / 40 / 0.08	1.75	2.45	12.3	9.3
4	1.25	7 / 40 / 0.08	1.75	2.45	13.5	8.6
5	1.25	7 / 40 / 0.08	1.75	2.45	15.2	8.2
6	1.25	7 / 40 / 0.08	1.75	2.45	15.7	8.0
7	1.25	7 / 40 / 0.08	1.75	2.45	17.4	7.8
8	1.25	7 / 40 / 0.08	1.75	2.45	18.4	7.6
9	1.25	7 / 40 / 0.08	1.75	2.45	19.5	7.4
10	1.25	7 / 40 / 0.08	1.75	2.45	19.8	7.2
12	1.25	7 / 40 / 0.08	1.75	2.45	20.6	7.0
2	2	7 / 60 / 0.08	2.15	3.05	13.9	15.1
3	2	7 / 60 / 0.08	2.15	3.05	14.8	13.2
4	2	7 / 60 / 0.08	2.15	3.05	16.3	12.2
5	2	7 / 60 / 0.08	2.15	3.05	18.4	11.6
6	2	7 / 60 / 0.08	2.15	3.05	19.0	11.3
7	2	7 / 60 / 0.08	2.15	3.05	21.0	11.1



Find out what LS Factory Automation Cable can do to your FA system.

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ROIREU-SB

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ROIREU

High Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the cable chains of manufacturing automatic machine (especially, for LCD and Semi-conductor manufacturing line) or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Sheath : Polyurethane(PU) (Alternative : excellent low particle TPU Material)

Condition

- Temperature range : Flexing –10℃ ~ +90℃ / Fixed –40℃ ~ +90℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. ㎞
- Minimum Bending radius : Overall diameter X 7.5

ROIREU

High Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	3.7	4.8
3	0.2	40 / 0.08	0.58	0.98	3.9	4.2
4	0.2	40 / 0.08	0.58	0.98	4.2	3.4
5	0.2	40 / 0.08	0.58	0.98	4.5	3.2
6	0.2	40 / 0.08	0.58	0.98	4.8	2.9
7	0.2	40 / 0.08	0.58	0.98	5.1	2.8
8	0.2	40 / 0.08	0.58	0.98	5.4	2.7
9	0.2	40 / 0.08	0.58	0.98	5.7	2.6
10	0.2	40 / 0.08	0.58	0.98	5.8	2.6
12	0.2	40 / 0.08	0.58	0.98	6.0	2.5
15	0.2	40 / 0.08	0.58	0.98	6.6	2.5
20	0.2	40 / 0.08	0.58	0.98	7.2	2.3
25	0.2	40 / 0.08	0.58	0.98	8.0	2.2
30	0.2	40 / 0.08	0.58	0.98	8.4	2.1
40	0.2	40 / 0.08	0.58	0.98	9.7	1.9
50	0.2	40 / 0.08	0.58	0.98	10.5	1.4

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.2	6.4
3	0.3	60 / 0.08	0.72	1.22	4.4	5.6
4	0.3	60 / 0.08	0.72	1.22	4.8	4.5
5	0.3	60 / 0.08	0.72	1.22	5.2	4.2
6	0.3	60 / 0.08	0.72	1.22	5.6	3.9
7	0.3	60 / 0.08	0.72	1.22	6.0	3.8
8	0.3	60 / 0.08	0.72	1.22	6.4	3.6
9	0.3	60 / 0.08	0.72	1.22	6.8	3.5
10	0.3	60 / 0.08	0.72	1.22	6.9	3.4
12	0.3	60 / 0.08	0.72	1.22	7.1	3.4
15	0.3	60 / 0.08	0.72	1.22	7.8	3.3
20	0.3	60 / 0.08	0.72	1.22	8.6	3.0
25	0.3	60 / 0.08	0.72	1.22	9.5	3.0
30	0.3	60 / 0.08	0.72	1.22	10.1	2.8
40	0.3	60 / 0.08	0.72	1.22	11.7	2.5
50	0.3	60 / 0.08	0.72	1.22	12.7	1.8

ROIREU

High Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.1	8.0
3	0.5	7 / 14 / 0.08	1.04	1.64	5.4	7.0
4	0.5	7 / 14 / 0.08	1.04	1.64	5.9	5.6
5	0.5	7 / 14 / 0.08	1.04	1.64	6.4	5.3
6	0.5	7 / 14 / 0.08	1.04	1.64	6.9	4.9
7	0.5	7 / 14 / 0.08	1.04	1.64	7.5	4.7
8	0.5	7 / 14 / 0.08	1.04	1.64	8.0	4.5
9	0.5	7 / 14 / 0.08	1.04	1.64	8.5	4.4
10	0.5	7 / 14 / 0.08	1.04	1.64	8.7	4.3
12	0.5	7 / 14 / 0.08	1.04	1.64	9.0	4.2
15	0.5	7 / 14 / 0.08	1.04	1.64	9.9	4.1
20	0.5	7 / 14 / 0.08	1.04	1.64	11.0	3.8
25	0.5	7 / 14 / 0.08	1.04	1.64	12.2	3.7
30	0.5	7 / 14 / 0.08	1.04	1.64	13.0	3.5
40	0.5	7 / 14 / 0.08	1.04	1.64	15.1	3.1
50	0.5	7 / 14 / 0.08	1.04	1.64	16.5	2.3

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	5.6	11.2
3	0.75	7 / 20 / 0.08	1.24	1.84	5.9	9.8
4	0.75	7 / 20 / 0.08	1.24	1.84	6.4	7.8
5	0.75	7 / 20 / 0.08	1.24	1.84	7.0	7.4
6	0.75	7 / 20 / 0.08	1.24	1.84	7.6	6.9
7	0.75	7 / 20 / 0.08	1.24	1.84	8.2	6.6
8	0.75	7 / 20 / 0.08	1.24	1.84	8.8	6.3
9	0.75	7 / 20 / 0.08	1.24	1.84	9.4	6.2
10	0.75	7 / 20 / 0.08	1.24	1.84	9.5	6.0
12	0.75	7 / 20 / 0.08	1.24	1.84	9.8	5.9
15	0.75	7 / 20 / 0.08	1.24	1.84	10.9	5.7
20	0.75	7 / 20 / 0.08	1.24	1.84	12.2	5.3
25	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.2
30	0.75	7 / 20 / 0.08	1.24	1.84	14.4	4.9
40	0.75	7 / 20 / 0.08	1.24	1.84	16.8	4.3
50	0.75	7 / 20 / 0.08	1.24	1.84	18.3	3.2

ROIREU

High Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	6.9	15.2
3	1.25	7 / 40 / 0.08	1.75	2.45	7.3	13.3
4	1.25	7 / 40 / 0.08	1.75	2.45	8.0	10.6
5	1.25	7 / 40 / 0.08	1.75	2.45	8.7	10.1
6	1.25	7 / 40 / 0.08	1.75	2.45	9.5	9.3
7	1.25	7 / 40 / 0.08	1.75	2.45	10.4	8.9
8	1.25	7 / 40 / 0.08	1.75	2.45	11.2	8.6
9	1.25	7 / 40 / 0.08	1.75	2.45	12.0	8.4
10	1.25	7 / 40 / 0.08	1.75	2.45	12.2	8.2
12	1.25	7 / 40 / 0.08	1.75	2.45	12.6	8.0
15	1.25	7 / 40 / 0.08	1.75	2.45	14.0	7.8
20	1.25	7 / 40 / 0.08	1.75	2.45	15.7	7.2
25	1.25	7 / 40 / 0.08	1.75	2.45	17.5	7.0
30	1.25	7 / 40 / 0.08	1.75	2.45	18.6	6.7
40	1.25	7 / 40 / 0.08	1.75	2.45	21.8	5.9
50	1.25	7 / 40 / 0.08	1.75	2.45	23.9	4.4

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.05	8.2	21.6
3	2	7 / 60 / 0.08	2.15	3.05	8.7	18.9
4	2	7 / 60 / 0.08	2.15	3.05	9.5	15.1
5	2	7 / 60 / 0.08	2.15	3.05	10.5	14.3
6	2	7 / 60 / 0.08	2.15	3.05	11.5	13.2
7	2	7 / 60 / 0.08	2.15	3.05	12.5	12.7
8	2	7 / 60 / 0.08	2.15	3.05	13.5	12.2
9	2	7 / 60 / 0.08	2.15	3.05	14.5	11.9
10	2	7 / 60 / 0.08	2.15	3.05	14.8	11.6
12	2	7 / 60 / 0.08	2.15	3.05	15.3	11.3
15	2	7 / 60 / 0.08	2.15	3.05	17.1	11.1
2	3.5	19 / 40 / 0.08	2.92	3.82	9.9	28.0
3	3.5	19 / 40 / 0.08	2.92	3.82	10.5	24.5
4	3.5	19 / 40 / 0.08	2.92	3.82	11.5	19.6
5	3.5	19 / 40 / 0.08	2.92	3.82	12.7	18.6
6	3.5	19 / 40 / 0.08	2.92	3.82	14.0	17.2

RoHS CE UL SP

ROIREU

High Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the cable chains of manufacturing automatic machine (especially, for LCD and Semi-conductor manufacturing line) or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Sheath : Polyurethane(PU) (Alternative : excellent low particle TPU Material)

Condition

- Temperature range : Flexing –10℃ ~ +90℃ / Fixed –40℃ ~ +90℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 7.5

ROIREU

High Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	5.3	3.4
3	0.2	40 / 0.08	0.58	0.98	5.6	2.9
4	0.2	40 / 0.08	0.58	0.98	6.0	2.7
5	0.2	40 / 0.08	0.58	0.98	6.7	2.6
6	0.2	40 / 0.08	0.58	0.98	6.9	2.5
7	0.2	40 / 0.08	0.58	0.98	7.5	2.5
8	0.2	40 / 0.08	0.58	0.98	8.0	2.4
9	0.2	40 / 0.08	0.58	0.98	8.4	2.3
10	0.2	40 / 0.08	0.58	0.98	8.5	2.3
12	0.2	40 / 0.08	0.58	0.98	8.8	2.2
15	0.2	40 / 0.08	0.58	0.98	9.9	2.1
20	0.2	40 / 0.08	0.58	0.98	10.7	1.9
25	0.2	40 / 0.08	0.58	0.98	11.8	1.4
30	0.2	40 / 0.08	0.58	0.98	12.4	1.4
40	0.2	40 / 0.08	0.58	0.98	14.0	1.4
50	0.2	40 / 0.08	0.58	0.98	15.3	1.4

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.2	4.5
3	0.3	60 / 0.08	0.72	1.22	6.6	3.9
4	0.3	60 / 0.08	0.72	1.22	7.1	3.6
5	0.3	60 / 0.08	0.72	1.22	7.9	3.4
6	0.3	60 / 0.08	0.72	1.22	8.2	3.4
7	0.3	60 / 0.08	0.72	1.22	9.0	3.3
8	0.3	60 / 0.08	0.72	1.22	9.5	3.2
9	0.3	60 / 0.08	0.72	1.22	10.0	3.1
10	0.3	60 / 0.08	0.72	1.22	10.2	3.0
12	0.3	60 / 0.08	0.72	1.22	10.6	3.0
15	0.3	60 / 0.08	0.72	1.22	11.9	2.8
20	0.3	60 / 0.08	0.72	1.22	12.9	2.5
25	0.3	60 / 0.08	0.72	1.22	14.3	1.8
30	0.3	60 / 0.08	0.72	1.22	15.0	1.8
40	0.3	60 / 0.08	0.72	1.22	17.0	1.8
50	0.3	60 / 0.08	0.72	1.22	18.6	1.8

ROIREU

High Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	7.8	5.6
3	0.5	7 / 14 / 0.08	1.04	1.64	8.3	4.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.0	4.5
5	0.5	7 / 14 / 0.08	1.04	1.64	10.1	4.3
6	0.5	7 / 14 / 0.08	1.04	1.64	10.5	4.2
7	0.5	7 / 14 / 0.08	1.04	1.64	11.5	4.1
8	0.5	7 / 14 / 0.08	1.04	1.64	12.2	4.0
9	0.5	7 / 14 / 0.08	1.04	1.64	12.9	3.9
10	0.5	7 / 14 / 0.08	1.04	1.64	13.1	3.8
12	0.5	7 / 14 / 0.08	1.04	1.64	13.6	3.7
15	0.5	7 / 14 / 0.08	1.04	1.64	15.4	3.5
20	0.5	7 / 14 / 0.08	1.04	1.64	16.8	3.1
25	0.5	7 / 14 / 0.08	1.04	1.64	18.7	2.3
30	0.5	7 / 14 / 0.08	1.04	1.64	19.7	2.3
40	0.5	7 / 14 / 0.08	1.04	1.64	22.3	2.3
50	0.5	7 / 14 / 0.08	1.04	1.64	24.4	2.3

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	8.6	7.8
3	0.75	7 / 20 / 0.08	1.24	1.84	9.1	6.9
4	0.75	7 / 20 / 0.08	1.24	1.84	9.9	6.3
5	0.75	7 / 20 / 0.08	1.24	1.84	11.1	6.0
6	0.75	7 / 20 / 0.08	1.24	1.84	11.5	5.9
7	0.75	7 / 20 / 0.08	1.24	1.84	12.7	5.7
8	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.6
9	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.5
10	0.75	7 / 20 / 0.08	1.24	1.84	14.5	5.3
12	0.75	7 / 20 / 0.08	1.24	1.84	15.1	5.2
15	0.75	7 / 20 / 0.08	1.24	1.84	17.1	4.9
20	0.75	7 / 20 / 0.08	1.24	1.84	18.7	4.3
25	0.75	7 / 20 / 0.08	1.24	1.84	20.8	3.2
30	0.75	7 / 20 / 0.08	1.24	1.84	21.9	3.2
40	0.75	7 / 20 / 0.08	1.24	1.84	24.9	3.2
50	0.75	7 / 20 / 0.08	1.24	1.84	27.2	3.2

ROIREU

High Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	10.9	10.6
3	1.25	7 / 40 / 0.08	1.75	2.45	11.5	9.3
4	1.25	7 / 40 / 0.08	1.75	2.45	12.7	8.6
5	1.25	7 / 40 / 0.08	1.75	2.45	14.3	8.2
6	1.25	7 / 40 / 0.08	1.75	2.45	14.8	8.0
7	1.25	7 / 40 / 0.08	1.75	2.45	16.4	7.8
8	1.25	7 / 40 / 0.08	1.75	2.45	17.5	7.6
9	1.25	7 / 40 / 0.08	1.75	2.45	18.5	7.4
10	1.25	7 / 40 / 0.08	1.75	2.45	18.8	7.2
12	1.25	7 / 40 / 0.08	1.75	2.45	19.6	7.0
2	2	7 / 60 / 0.08	2.15	3.05	13.1	15.1
3	2	7 / 60 / 0.08	2.15	3.05	14.0	13.2
4	2	7 / 60 / 0.08	2.15	3.05	15.4	12.2
5	2	7 / 60 / 0.08	2.15	3.05	17.4	11.6
6	2	7 / 60 / 0.08	2.15	3.05	18.1	11.3
7	2	7 / 60 / 0.08	2.15	3.05	20.0	11.1

RoHS CE UL SP

ROIREU-SB

High Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the cable chains of manufacturing automatic machine (especially, for LCD and Semi-conductor manufacturing line) or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Excellent shielding effectiveness by tinned copper braid.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane(PU) (Alternative : excellent low particle TPU Material)

Condition

- Temperature range : Flexing −10℃ ~ +90℃ / Fixed −40℃ ~ +90℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 10

ROIREU-SB

High Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	4.4	4.8
3	0.2	40 / 0.08	0.58	0.98	4.5	4.2
4	0.2	40 / 0.08	0.58	0.98	4.8	3.4
5	0.2	40 / 0.08	0.58	0.98	5.1	3.2
6	0.2	40 / 0.08	0.58	0.98	5.4	2.9
7	0.2	40 / 0.08	0.58	0.98	5.8	2.8
8	0.2	40 / 0.08	0.58	0.98	6.1	2.7
9	0.2	40 / 0.08	0.58	0.98	6.4	2.6
10	0.2	40 / 0.08	0.58	0.98	6.5	2.6
12	0.2	40 / 0.08	0.58	0.98	6.6	2.5
15	0.2	40 / 0.08	0.58	0.98	7.2	2.5
20	0.2	40 / 0.08	0.58	0.98	7.9	2.3
25	0.2	40 / 0.08	0.58	0.98	8.6	2.2
30	0.2	40 / 0.08	0.58	0.98	9.0	2.1
40	0.2	40 / 0.08	0.58	0.98	10.3	1.9
50	0.2	40 / 0.08	0.58	0.98	11.1	1.4

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.2	4.9	6.4
3	0.3	60 / 0.08	0.72	1.2	5.1	5.6
4	0.3	60 / 0.08	0.72	1.2	5.4	4.5
5	0.3	60 / 0.08	0.72	1.2	5.8	4.2
6	0.3	60 / 0.08	0.72	1.2	6.2	3.9
7	0.3	60 / 0.08	0.72	1.2	6.6	3.8
8	0.3	60 / 0.08	0.72	1.2	7.0	3.6
9	0.3	60 / 0.08	0.72	1.2	7.4	3.5
10	0.3	60 / 0.08	0.72	1.2	7.5	3.4
12	0.3	60 / 0.08	0.72	1.2	7.7	3.4
15	0.3	60 / 0.08	0.72	1.2	8.4	3.3
20	0.3	60 / 0.08	0.72	1.2	9.2	3.0
25	0.3	60 / 0.08	0.72	1.2	10.2	3.0
30	0.3	60 / 0.08	0.72	1.2	10.7	2.8
40	0.3	60 / 0.08	0.72	1.2	12.4	2.5
50	0.3	60 / 0.08	0.72	1.2	13.4	1.8

ROIREU-SB

High Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.8	8.0
3	0.5	7 / 14 / 0.08	1.04	1.64	6.1	7.0
4	0.5	7 / 14 / 0.08	1.04	1.64	6.5	5.6
5	0.5	7 / 14 / 0.08	1.04	1.64	7.0	5.3
6	0.5	7 / 14 / 0.08	1.04	1.64	7.6	4.9
7	0.5	7 / 14 / 0.08	1.04	1.64	8.1	4.7
8	0.5	7 / 14 / 0.08	1.04	1.64	8.7	4.5
9	0.5	7 / 14 / 0.08	1.04	1.64	9.2	4.4
10	0.5	7 / 14 / 0.08	1.04	1.64	9.3	4.3
12	0.5	7 / 14 / 0.08	1.04	1.64	9.6	4.2
15	0.5	7 / 14 / 0.08	1.04	1.64	10.6	4.1
20	0.5	7 / 14 / 0.08	1.04	1.64	11.7	3.8
25	0.5	7 / 14 / 0.08	1.04	1.64	13.0	3.7
30	0.5	7 / 14 / 0.08	1.04	1.64	13.7	3.5
40	0.5	7 / 14 / 0.08	1.04	1.64	16.0	3.1
50	0.5	7 / 14 / 0.08	1.04	1.64	17.5	2.3

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	6.2	11.2
3	0.75	7 / 20 / 0.08	1.24	1.84	6.5	9.8
4	0.75	7 / 20 / 0.08	1.24	1.84	7.0	7.8
5	0.75	7 / 20 / 0.08	1.24	1.84	7.6	7.4
6	0.75	7 / 20 / 0.08	1.24	1.84	8.2	6.9
7	0.75	7 / 20 / 0.08	1.24	1.84	8.8	6.6
8	0.75	7 / 20 / 0.08	1.24	1.84	9.4	6.3
9	0.75	7 / 20 / 0.08	1.24	1.84	10.0	6.2
10	0.75	7 / 20 / 0.08	1.24	1.84	10.2	6.0
12	0.75	7 / 20 / 0.08	1.24	1.84	10.5	5.9
15	0.75	7 / 20 / 0.08	1.24	1.84	11.6	5.7
20	0.75	7 / 20 / 0.08	1.24	1.84	12.9	5.3
25	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.2
30	0.75	7 / 20 / 0.08	1.24	1.84	15.2	4.9
40	0.75	7 / 20 / 0.08	1.24	1.84	17.8	4.3
50	0.75	7 / 20 / 0.08	1.24	1.84	19.3	3.2

ROIREU-SB

High Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	7.5	15.2
3	1.25	7 / 40 / 0.08	1.75	2.45	7.9	13.3
4	1.25	7 / 40 / 0.08	1.75	2.45	8.6	10.6
5	1.25	7 / 40 / 0.08	1.75	2.45	9.4	10.1
6	1.25	7 / 40 / 0.08	1.75	2.45	10.2	9.3
7	1.25	7 / 40 / 0.08	1.75	2.45	11.0	8.9
8	1.25	7 / 40 / 0.08	1.75	2.45	11.8	8.6
9	1.25	7 / 40 / 0.08	1.75	2.45	12.7	8.4
10	1.25	7 / 40 / 0.08	1.75	2.45	12.9	8.2
12	1.25	7 / 40 / 0.08	1.75	2.45	13.4	8.0
15	1.25	7 / 40 / 0.08	1.75	2.45	14.9	7.8
20	1.25	7 / 40 / 0.08	1.75	2.45	16.5	7.2
25	1.25	7 / 40 / 0.08	1.75	2.45	18.4	7.0
30	1.25	7 / 40 / 0.08	1.75	2.45	19.6	6.7
40	1.25	7 / 40 / 0.08	1.75	2.45	22.8	5.9
50	1.25	7 / 40 / 0.08	1.75	2.45	24.8	4.4

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	3.05	8.8	21.6
3	2	7 / 60 / 0.08	2.15	3.05	9.3	18.9
4	2	7 / 60 / 0.08	2.15	3.05	10.2	15.1
5	2	7 / 60 / 0.08	2.15	3.05	11.1	14.3
6	2	7 / 60 / 0.08	2.15	3.05	12.2	13.2
7	2	7 / 60 / 0.08	2.15	3.05	13.3	12.7
8	2	7 / 60 / 0.08	2.15	3.05	14.3	12.2
9	2	7 / 60 / 0.08	2.15	3.05	15.4	11.9
10	2	7 / 60 / 0.08	2.15	3.05	15.6	11.6
12	2	7 / 60 / 0.08	2.15	3.05	16.1	11.3
15	2	7 / 60 / 0.08	2.15	3.05	18.1	11.1
2	3.5	19 / 40 / 0.08	2.92	3.82	10.5	28.0
3	3.5	19 / 40 / 0.08	2.92	3.82	11.1	24.5
4	3.5	19 / 40 / 0.08	2.92	3.82	12.3	19.6
5	3.5	19 / 40 / 0.08	2.92	3.82	13.5	18.6
6	3.5	19 / 40 / 0.08	2.92	3.82	14.8	17.2

RoHS CE UL SP

ROIREU-SB

High Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the cable chains of manufacturing automatic machine (especially, for LCD and Semi-conductor manufacturing line) or internal wiring of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- XLPE insulation helps prevent shrinking back or melting when used in production line soldering.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Excellent shielding effectiveness by tinned copper braid.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Irradiated cross-linked PE (XLPE)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane(PU) (Alternative : excellent low particle TPU Material)

Condition

- Temperature range : Flexing –10℃ ~ +90℃ / Fixed –40℃ ~ +90℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 10

ROIREU-SB

High Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	6.0	3.4
3	0.2	40 / 0.08	0.58	0.98	6.2	2.9
4	0.2	40 / 0.08	0.58	0.98	6.7	2.7
5	0.2	40 / 0.08	0.58	0.98	7.3	2.6
6	0.2	40 / 0.08	0.58	0.98	7.5	2.5
7	0.2	40 / 0.08	0.58	0.98	8.2	2.5
8	0.2	40 / 0.08	0.58	0.98	8.6	2.4
9	0.2	40 / 0.08	0.58	0.98	9.0	2.3
10	0.2	40 / 0.08	0.58	0.98	9.1	2.3
12	0.2	40 / 0.08	0.58	0.98	9.4	2.2
15	0.2	40 / 0.08	0.58	0.98	10.5	2.1
20	0.2	40 / 0.08	0.58	0.98	11.4	1.9
25	0.2	40 / 0.08	0.58	0.98	12.6	1.4
30	0.2	40 / 0.08	0.58	0.98	13.2	1.4
40	0.2	40 / 0.08	0.58	0.98	14.8	1.4
50	0.2	40 / 0.08	0.58	0.98	16.1	1.4

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.9	4.5
3	0.3	60 / 0.08	0.72	1.22	7.2	3.9
4	0.3	60 / 0.08	0.72	1.22	7.8	3.6
5	0.3	60 / 0.08	0.72	1.22	8.6	3.4
6	0.3	60 / 0.08	0.72	1.22	8.8	3.4
7	0.3	60 / 0.08	0.72	1.22	9.6	3.3
8	0.3	60 / 0.08	0.72	1.22	10.2	3.2
9	0.3	60 / 0.08	0.72	1.22	10.7	3.1
10	0.3	60 / 0.08	0.72	1.22	10.8	3.0
12	0.3	60 / 0.08	0.72	1.22	11.2	3.0
15	0.3	60 / 0.08	0.72	1.22	12.6	2.8
20	0.3	60 / 0.08	0.72	1.22	13.7	2.5
25	0.3	60 / 0.08	0.72	1.22	15.2	1.8
30	0.3	60 / 0.08	0.72	1.22	15.9	1.8
40	0.3	60 / 0.08	0.72	1.22	18.0	1.8
50	0.3	60 / 0.08	0.72	1.22	19.6	1.8

ROIREU-SB

High Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	8.4	5.6
3	0.5	7 / 14 / 0.08	1.04	1.64	8.9	4.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.7	4.5
5	0.5	7 / 14 / 0.08	1.04	1.64	10.7	4.3
6	0.5	7 / 14 / 0.08	1.04	1.64	11.1	4.2
7	0.5	7 / 14 / 0.08	1.04	1.64	12.3	4.1
8	0.5	7 / 14 / 0.08	1.04	1.64	13.0	4.0
9	0.5	7 / 14 / 0.08	1.04	1.64	13.7	3.9
10	0.5	7 / 14 / 0.08	1.04	1.64	13.9	3.8
12	0.5	7 / 14 / 0.08	1.04	1.64	14.5	3.7
15	0.5	7 / 14 / 0.08	1.04	1.64	16.3	3.5
20	0.5	7 / 14 / 0.08	1.04	1.64	17.8	3.1
25	0.5	7 / 14 / 0.08	1.04	1.64	19.6	2.3
30	0.5	7 / 14 / 0.08	1.04	1.64	20.6	2.3
40	0.5	7 / 14 / 0.08	1.04	1.64	23.3	2.3
50	0.5	7 / 14 / 0.08	1.04	1.64	25.4	2.3

Pair Type 0.75 SQ

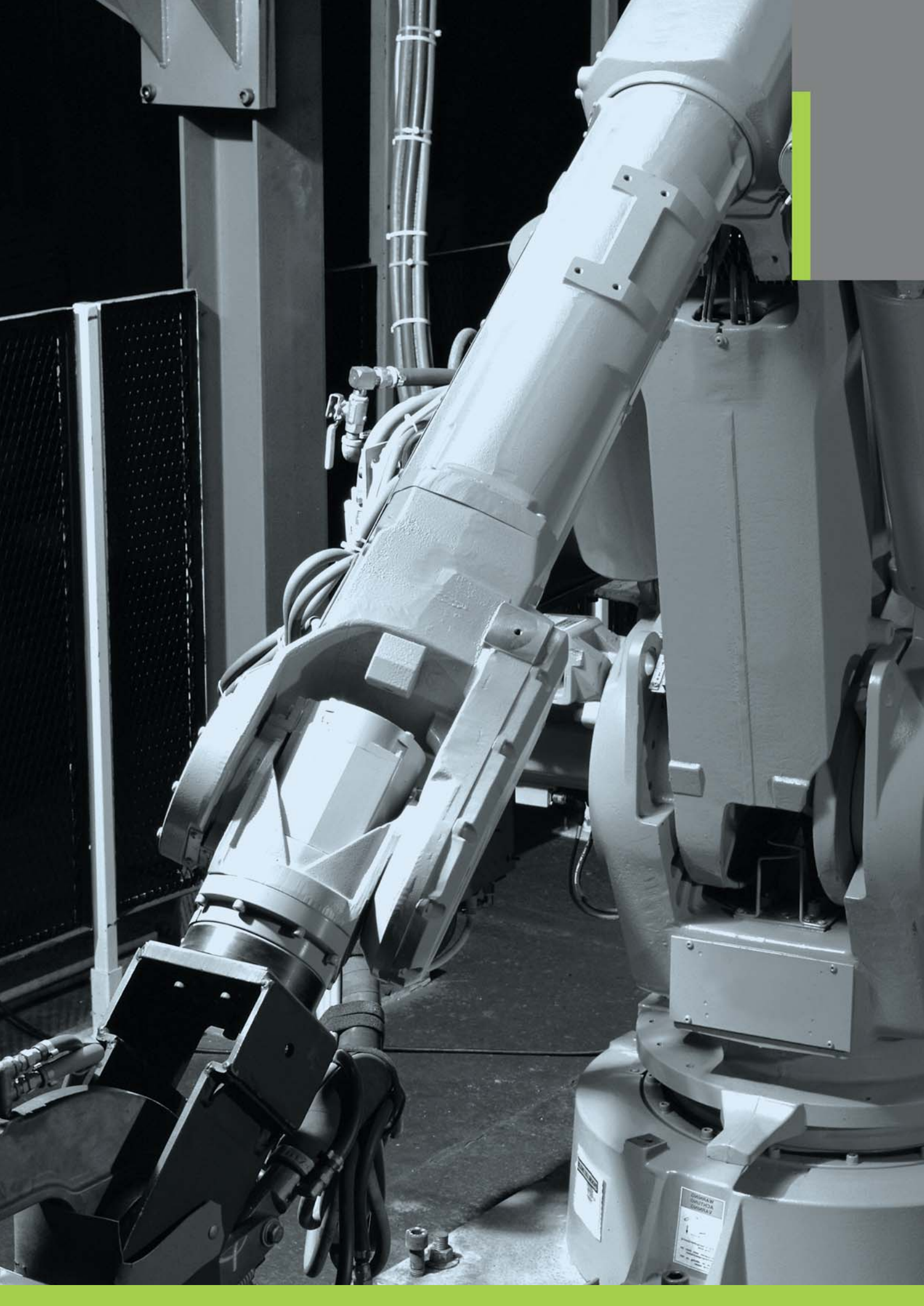
Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.84	9.2	7.8
3	0.75	7 / 20 / 0.08	1.24	1.84	9.7	6.9
4	0.75	7 / 20 / 0.08	1.24	1.84	10.6	6.3
5	0.75	7 / 20 / 0.08	1.24	1.84	11.8	6.0
6	0.75	7 / 20 / 0.08	1.24	1.84	12.3	5.9
7	0.75	7 / 20 / 0.08	1.24	1.84	13.5	5.7
8	0.75	7 / 20 / 0.08	1.24	1.84	14.3	5.6
9	0.75	7 / 20 / 0.08	1.24	1.84	15.2	5.5
10	0.75	7 / 20 / 0.08	1.24	1.84	15.4	5.3
12	0.75	7 / 20 / 0.08	1.24	1.84	16.0	5.2
15	0.75	7 / 20 / 0.08	1.24	1.84	18.1	4.9
20	0.75	7 / 20 / 0.08	1.24	1.84	19.7	4.3
25	0.75	7 / 20 / 0.08	1.24	1.84	21.7	3.2
30	0.75	7 / 20 / 0.08	1.24	1.84	22.8	3.2
40	0.75	7 / 20 / 0.08	1.24	1.84	25.8	3.2
50	0.75	7 / 20 / 0.08	1.24	1.84	28.2	3.2

ROIREU-SB

High Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.45	11.5	10.6
3	1.25	7 / 40 / 0.08	1.75	2.45	12.3	9.3
4	1.25	7 / 40 / 0.08	1.75	2.45	13.5	8.6
5	1.25	7 / 40 / 0.08	1.75	2.45	15.2	8.2
6	1.25	7 / 40 / 0.08	1.75	2.45	15.7	8.0
7	1.25	7 / 40 / 0.08	1.75	2.45	17.4	7.8
8	1.25	7 / 40 / 0.08	1.75	2.45	18.4	7.6
9	1.25	7 / 40 / 0.08	1.75	2.45	19.5	7.4
10	1.25	7 / 40 / 0.08	1.75	2.45	19.8	7.2
12	1.25	7 / 40 / 0.08	1.75	2.45	20.6	7.0
2	2	7 / 60 / 0.08	2.15	3.05	13.9	15.1
3	2	7 / 60 / 0.08	2.15	3.05	14.8	13.2
4	2	7 / 60 / 0.08	2.15	3.05	16.3	12.2
5	2	7 / 60 / 0.08	2.15	3.05	18.4	11.6
6	2	7 / 60 / 0.08	2.15	3.05	19.0	11.3
7	2	7 / 60 / 0.08	2.15	3.05	21.0	11.1



Find out what LS Factory Automation Cable can do to your FA system.

ROFHV

ROFHV-SB

RoHS CE UL SP

ROFHV

Super Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or internal or external wiring of the industrial robots system.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes friction between cores.
- Specially formulated soft PVC sheath improves the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5

ROFHV

Super Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	3.7	6.4
3	0.2	40 / 0.08	0.58	0.98	3.9	5.6
4	0.2	40 / 0.08	0.58	0.98	4.2	4.5
5	0.2	40 / 0.08	0.58	0.98	4.5	4.2
6	0.2	40 / 0.08	0.58	0.98	4.8	3.9
7	0.2	40 / 0.08	0.58	0.98	5.1	3.8
8	0.2	40 / 0.08	0.58	0.98	5.4	3.6
9	0.2	40 / 0.08	0.58	0.98	5.7	3.5
10	0.2	40 / 0.08	0.58	0.98	5.8	3.4
12	0.2	40 / 0.08	0.58	0.98	6.0	3.4
15	0.2	40 / 0.08	0.58	0.98	6.6	3.3
20	0.2	40 / 0.08	0.58	0.98	7.2	3.0
25	0.2	40 / 0.08	0.58	0.98	8.0	3.0
30	0.2	40 / 0.08	0.58	0.98	8.4	2.8
40	0.2	40 / 0.08	0.58	0.98	9.7	2.5
50	0.2	40 / 0.08	0.58	0.98	10.5	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.2	8.0
3	0.3	60 / 0.08	0.72	1.22	4.4	7.0
4	0.3	60 / 0.08	0.72	1.22	4.8	5.6
5	0.3	60 / 0.08	0.72	1.22	5.2	5.3
6	0.3	60 / 0.08	0.72	1.22	5.6	4.9
7	0.3	60 / 0.08	0.72	1.22	6.0	4.7
8	0.3	60 / 0.08	0.72	1.22	6.4	4.5
9	0.3	60 / 0.08	0.72	1.22	6.8	4.4
10	0.3	60 / 0.08	0.72	1.22	6.9	4.3
12	0.3	60 / 0.08	0.72	1.22	7.1	4.2
15	0.3	60 / 0.08	0.72	1.22	7.8	4.1
20	0.3	60 / 0.08	0.72	1.22	8.6	3.8
25	0.3	60 / 0.08	0.72	1.22	9.5	3.7
30	0.3	60 / 0.08	0.72	1.22	10.1	3.5
40	0.3	60 / 0.08	0.72	1.22	11.7	3.1
50	0.3	60 / 0.08	0.72	1.22	12.7	2.3

ROFHV

Super Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.1	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	5.4	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	5.9	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	6.4	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	6.9	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	7.5	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	8.0	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	8.5	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	8.7	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	9.0	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	9.9	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	11.0	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	12.2	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	13.0	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	15.1	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	16.5	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	5.8	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	6.1	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	6.6	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	7.3	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	7.9	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	8.5	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	9.2	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	9.8	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	10.0	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	10.3	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	11.4	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	12.7	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	14.2	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	15.1	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	17.6	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	19.2	4.6

ROFHV

Super Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	7.1	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	7.5	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	8.2	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	9.0	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	9.9	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	10.7	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	11.6	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	12.4	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	12.6	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	13.0	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	14.5	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	16.2	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	18.1	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	19.3	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	22.6	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	24.8	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	8.0	29.6
3	2	7 / 60 / 0.08	2.15	2.95	8.4	25.9
4	2	7 / 60 / 0.08	2.15	2.95	9.3	20.7
5	2	7 / 60 / 0.08	2.15	2.95	10.2	19.6
6	2	7 / 60 / 0.08	2.15	2.95	11.2	18.1
7	2	7 / 60 / 0.08	2.15	2.95	12.1	17.4
8	2	7 / 60 / 0.08	2.15	2.95	13.1	16.7
9	2	7 / 60 / 0.08	2.15	2.95	14.1	16.3
10	2	7 / 60 / 0.08	2.15	2.95	14.3	15.9
12	2	7 / 60 / 0.08	2.15	2.95	14.8	15.5
15	2	7 / 60 / 0.08	2.15	2.95	16.6	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	9.9	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	10.5	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	11.5	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	12.7	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	14.0	27.4

RoHS

ROFHV

Super Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or internal or external wiring of the industrial robots system.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of fine wire copper strands.
- Fluorine compound insulation minimizes friction between cores.
- Specially formulated soft PVC sheath improves the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. ㎞
- Minimum Bending radius : Overall diameter X 5

ROFHV

Super Flexible Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	5.3	4.5
3	0.2	40 / 0.08	0.58	0.98	5.6	3.9
4	0.2	40 / 0.08	0.58	0.98	6.0	3.6
5	0.2	40 / 0.08	0.58	0.98	6.7	3.4
6	0.2	40 / 0.08	0.58	0.98	6.9	3.4
7	0.2	40 / 0.08	0.58	0.98	7.5	3.3
8	0.2	40 / 0.08	0.58	0.98	8.0	3.2
9	0.2	40 / 0.08	0.58	0.98	8.4	3.1
10	0.2	40 / 0.08	0.58	0.98	8.5	3.0
12	0.2	40 / 0.08	0.58	0.98	8.8	3.0
15	0.2	40 / 0.08	0.58	0.98	9.9	2.8
20	0.2	40 / 0.08	0.58	0.98	10.7	2.5
25	0.2	40 / 0.08	0.58	0.98	11.8	1.8
30	0.2	40 / 0.08	0.58	0.98	12.4	1.8
40	0.2	40 / 0.08	0.58	0.98	14.0	1.8
50	0.2	40 / 0.08	0.58	0.98	15.3	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.2	5.6
3	0.3	60 / 0.08	0.72	1.22	6.6	4.9
4	0.3	60 / 0.08	0.72	1.22	7.1	4.5
5	0.3	60 / 0.08	0.72	1.22	7.9	4.3
6	0.3	60 / 0.08	0.72	1.22	8.2	4.2
7	0.3	60 / 0.08	0.72	1.22	9.0	4.1
8	0.3	60 / 0.08	0.72	1.22	9.5	4.0
9	0.3	60 / 0.08	0.72	1.22	10.0	3.9
10	0.3	60 / 0.08	0.72	1.22	10.2	3.8
12	0.3	60 / 0.08	0.72	1.22	10.6	3.7
15	0.3	60 / 0.08	0.72	1.22	11.9	3.5
20	0.3	60 / 0.08	0.72	1.22	12.9	3.1
25	0.3	60 / 0.08	0.72	1.22	14.3	2.3
30	0.3	60 / 0.08	0.72	1.22	15.0	2.3
40	0.3	60 / 0.08	0.72	1.22	17.0	2.3
50	0.3	60 / 0.08	0.72	1.22	18.6	2.3

ROFHV

Super Flexible Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	7.8	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	8.3	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.0	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	10.1	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	10.5	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	11.5	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	12.2	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	12.9	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	13.1	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	13.6	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	15.4	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	16.8	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	18.7	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	19.7	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	22.3	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	24.4	3.2

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	8.9	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	9.5	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	10.4	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	11.7	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	12.1	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	13.3	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	14.2	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	15.0	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	15.2	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	15.8	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	17.9	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	19.6	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	21.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	23.0	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	26.1	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	28.6	4.6

ROFHV

Super Flexible Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	11.2	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	12.0	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	13.2	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	14.8	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	15.4	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	17.0	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	18.1	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	19.2	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	19.5	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	20.3	10.0
2	2	7 / 60 / 0.08	2.15	2.95	12.8	20.7
3	2	7 / 60 / 0.08	2.15	2.95	13.6	18.1
4	2	7 / 60 / 0.08	2.15	2.95	15.0	16.7
5	2	7 / 60 / 0.08	2.15	2.95	16.9	15.9
6	2	7 / 60 / 0.08	2.15	2.95	17.5	15.5
7	2	7 / 60 / 0.08	2.15	2.95	19.4	15.2

RoHS CE UL SP

ROFHV-SB

Super Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or internal or external wiring of the industrial robots system.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Specially formulated soft PVC sheath improves the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 7.5

ROFHV-SB

Super Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	4.4	6.4
3	0.2	40 / 0.08	0.58	0.98	4.5	5.6
4	0.2	40 / 0.08	0.58	0.98	4.8	4.5
5	0.2	40 / 0.08	0.58	0.98	5.1	4.2
6	0.2	40 / 0.08	0.58	0.98	5.4	3.9
7	0.2	40 / 0.08	0.58	0.98	5.8	3.8
8	0.2	40 / 0.08	0.58	0.98	6.1	3.6
9	0.2	40 / 0.08	0.58	0.98	6.4	3.5
10	0.2	40 / 0.08	0.58	0.98	6.5	3.4
12	0.2	40 / 0.08	0.58	0.98	6.6	3.4
15	0.2	40 / 0.08	0.58	0.98	7.2	3.3
20	0.2	40 / 0.08	0.58	0.98	7.9	3.0
25	0.2	40 / 0.08	0.58	0.98	8.6	3.0
30	0.2	40 / 0.08	0.58	0.98	9.0	2.8
40	0.2	40 / 0.08	0.58	0.98	10.3	2.5
50	0.2	40 / 0.08	0.58	0.98	11.1	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.9	8.0
3	0.3	60 / 0.08	0.72	1.22	5.1	7.0
4	0.3	60 / 0.08	0.72	1.22	5.4	5.6
5	0.3	60 / 0.08	0.72	1.22	5.8	5.3
6	0.3	60 / 0.08	0.72	1.22	6.2	4.9
7	0.3	60 / 0.08	0.72	1.22	6.6	4.7
8	0.3	60 / 0.08	0.72	1.22	7.0	4.5
9	0.3	60 / 0.08	0.72	1.22	7.4	4.4
10	0.3	60 / 0.08	0.72	1.22	7.5	4.3
12	0.3	60 / 0.08	0.72	1.22	7.7	4.2
15	0.3	60 / 0.08	0.72	1.22	8.4	4.1
20	0.3	60 / 0.08	0.72	1.22	9.2	3.8
25	0.3	60 / 0.08	0.72	1.22	10.2	3.7
30	0.3	60 / 0.08	0.72	1.22	10.7	3.5
40	0.3	60 / 0.08	0.72	1.22	12.4	3.1
50	0.3	60 / 0.08	0.72	1.22	13.4	2.3

ROFHV-SB

Super Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.8	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	6.1	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	6.5	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	7.0	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	7.6	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	8.1	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	8.7	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	9.2	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	9.3	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	9.6	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	10.6	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	11.7	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	13.0	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	13.7	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	16.0	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	17.5	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	6.4	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	6.8	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	7.3	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	7.9	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	8.5	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	9.2	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	9.8	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	10.5	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	10.6	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	10.9	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	12.2	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	13.5	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	15.0	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	15.9	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	18.6	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	20.2	4.6

ROFHV-SB

Super Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	7.8	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	8.2	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	8.9	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	9.7	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	10.5	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	11.4	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	12.3	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	13.2	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	13.4	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	13.8	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	15.4	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	17.2	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	19.1	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	20.3	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	23.6	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	25.7	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	8.6	29.6
3	2	7 / 60 / 0.08	2.15	2.95	9.1	25.9
4	2	7 / 60 / 0.08	2.15	2.95	9.9	20.7
5	2	7 / 60 / 0.08	2.15	2.95	10.9	19.6
6	2	7 / 60 / 0.08	2.15	2.95	11.8	18.1
7	2	7 / 60 / 0.08	2.15	2.95	12.9	17.4
8	2	7 / 60 / 0.08	2.15	2.95	13.9	16.7
9	2	7 / 60 / 0.08	2.15	2.95	15.0	16.3
10	2	7 / 60 / 0.08	2.15	2.95	15.2	15.9
12	2	7 / 60 / 0.08	2.15	2.95	15.7	15.5
15	2	7 / 60 / 0.08	2.15	2.95	17.5	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	10.5	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	11.1	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	12.3	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	13.5	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	14.8	27.4

RoHS CE UL SP

ROFHV-SB

Super Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or internal or external wiring of the industrial robots system.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Specially formulated soft PVC sheath improves the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Special Polyvinyl Chloride (PVC)

Condition

- Temperature range : Flexing −5℃ ~ +80℃ / Fixed −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 7.5

ROFHV-SB

Super Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	6.0	4.5
3	0.2	40 / 0.08	0.58	0.98	6.2	3.9
4	0.2	40 / 0.08	0.58	0.98	6.7	3.6
5	0.2	40 / 0.08	0.58	0.98	7.3	3.4
6	0.2	40 / 0.08	0.58	0.98	7.5	3.4
7	0.2	40 / 0.08	0.58	0.98	8.2	3.3
8	0.2	40 / 0.08	0.58	0.98	8.6	3.2
9	0.2	40 / 0.08	0.58	0.98	9.0	3.1
10	0.2	40 / 0.08	0.58	0.98	9.1	3.0
12	0.2	40 / 0.08	0.58	0.98	9.4	3.0
15	0.2	40 / 0.08	0.58	0.98	10.5	2.8
20	0.2	40 / 0.08	0.58	0.98	11.4	2.5
25	0.2	40 / 0.08	0.58	0.98	12.6	1.8
30	0.2	40 / 0.08	0.58	0.98	13.2	1.8
40	0.2	40 / 0.08	0.58	0.98	14.8	1.8
50	0.2	40 / 0.08	0.58	0.98	16.1	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.9	5.6
3	0.3	60 / 0.08	0.72	1.22	7.2	4.9
4	0.3	60 / 0.08	0.72	1.22	7.8	4.5
5	0.3	60 / 0.08	0.72	1.22	8.6	4.3
6	0.3	60 / 0.08	0.72	1.22	8.8	4.2
7	0.3	60 / 0.08	0.72	1.22	9.6	4.1
8	0.3	60 / 0.08	0.72	1.22	10.2	4.0
9	0.3	60 / 0.08	0.72	1.22	10.7	3.9
10	0.3	60 / 0.08	0.72	1.22	10.8	3.8
12	0.3	60 / 0.08	0.72	1.22	11.2	3.7
15	0.3	60 / 0.08	0.72	1.22	12.6	3.5
20	0.3	60 / 0.08	0.72	1.22	13.7	3.1
25	0.3	60 / 0.08	0.72	1.22	15.2	2.3
30	0.3	60 / 0.08	0.72	1.22	15.9	2.3
40	0.3	60 / 0.08	0.72	1.22	18.0	2.3
50	0.3	60 / 0.08	0.72	1.22	19.6	2.3

ROFHV-SB

Super Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	8.4	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	8.9	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.7	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	10.7	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	11.1	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	12.3	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	13.0	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	13.7	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	13.9	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	14.5	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	16.3	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	17.8	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	19.6	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	20.6	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	23.3	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	25.4	3.2

Pair Type 0.75 SQ

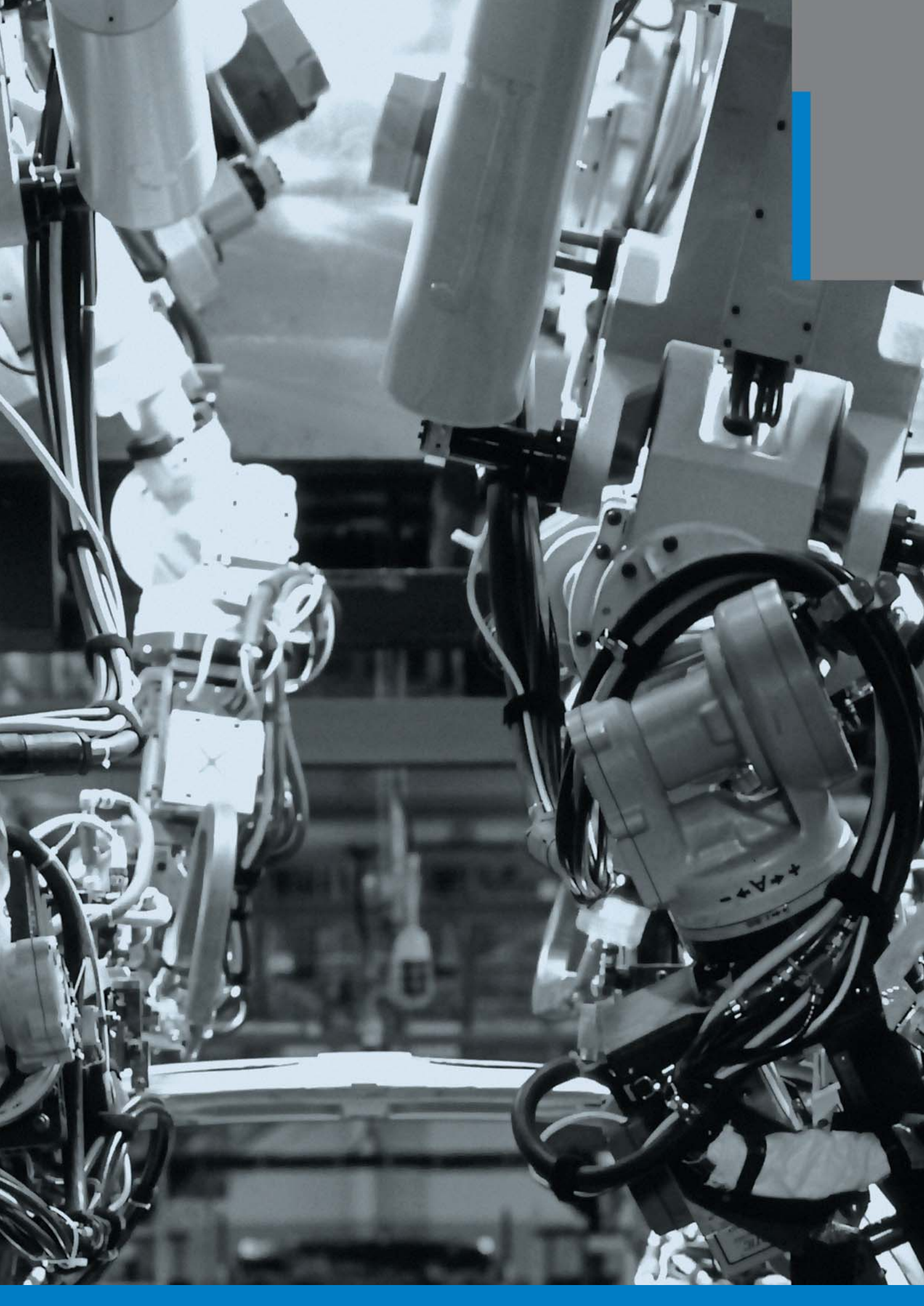
Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	9.6	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	10.1	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	11.0	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	12.4	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	12.8	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	14.1	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	15.0	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	15.9	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	16.1	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	16.8	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	18.9	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	20.6	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	22.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	23.9	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	27.1	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	29.6	4.6

ROFHV-SB

Super Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	11.9	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	12.7	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	13.9	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	15.7	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	16.2	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	18.0	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	19.1	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	20.2	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	20.5	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	21.3	10.0
2	2	7 / 60 / 0.08	2.15	2.95	13.5	20.7
3	2	7 / 60 / 0.08	2.15	2.95	14.3	18.1
4	2	7 / 60 / 0.08	2.15	2.95	15.8	16.7
5	2	7 / 60 / 0.08	2.15	2.95	17.9	15.9
6	2	7 / 60 / 0.08	2.15	2.95	18.5	15.5
7	2	7 / 60 / 0.08	2.15	2.95	20.4	15.2



Find out what LS Factory Automation Cable can do to your FA system.

RoHS CE UL SP

ROFHU

Super Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Sheath : Polyurethane (PU) (Alternative: excellent low particle TPU material)

Condition

- Temperature range : Flexing –20℃ ~ +90℃ / Fixed –40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5

ROFHU

Super Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	3.7	6.4
3	0.2	40 / 0.08	0.58	0.98	3.9	5.6
4	0.2	40 / 0.08	0.58	0.98	4.2	4.5
5	0.2	40 / 0.08	0.58	0.98	4.5	4.2
6	0.2	40 / 0.08	0.58	0.98	4.8	3.9
7	0.2	40 / 0.08	0.58	0.98	5.1	3.8
8	0.2	40 / 0.08	0.58	0.98	5.4	3.6
9	0.2	40 / 0.08	0.58	0.98	5.7	3.5
10	0.2	40 / 0.08	0.58	0.98	5.8	3.4
12	0.2	40 / 0.08	0.58	0.98	6.0	3.4
15	0.2	40 / 0.08	0.58	0.98	6.6	3.3
20	0.2	40 / 0.08	0.58	0.98	7.2	3.0
25	0.2	40 / 0.08	0.58	0.98	8.0	3.0
30	0.2	40 / 0.08	0.58	0.98	8.4	2.8
40	0.2	40 / 0.08	0.58	0.98	9.7	2.5
50	0.2	40 / 0.08	0.58	0.98	10.5	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.2	8.0
3	0.3	60 / 0.08	0.72	1.22	4.4	7.0
4	0.3	60 / 0.08	0.72	1.22	4.8	5.6
5	0.3	60 / 0.08	0.72	1.22	5.2	5.3
6	0.3	60 / 0.08	0.72	1.22	5.6	4.9
7	0.3	60 / 0.08	0.72	1.22	6.0	4.7
8	0.3	60 / 0.08	0.72	1.22	6.4	4.5
9	0.3	60 / 0.08	0.72	1.22	6.8	4.4
10	0.3	60 / 0.08	0.72	1.22	6.9	4.3
12	0.3	60 / 0.08	0.72	1.22	7.1	4.2
15	0.3	60 / 0.08	0.72	1.22	7.8	4.1
20	0.3	60 / 0.08	0.72	1.22	8.6	3.8
25	0.3	60 / 0.08	0.72	1.22	9.5	3.7
30	0.3	60 / 0.08	0.72	1.22	10.1	3.5
40	0.3	60 / 0.08	0.72	1.22	11.7	3.1
50	0.3	60 / 0.08	0.72	1.22	12.7	2.3

ROFHU

Super Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.1	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	5.4	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	5.9	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	6.4	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	6.9	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	7.5	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	8.0	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	8.5	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	8.7	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	9.0	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	9.9	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	11.0	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	12.2	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	13.0	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	15.1	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	16.5	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	5.8	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	6.1	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	6.6	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	7.3	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	7.9	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	8.5	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	9.2	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	9.8	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	10.0	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	10.3	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	11.4	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	12.7	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	14.2	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	15.1	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	17.6	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	19.2	4.6

ROFHU

Super Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	7.1	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	7.5	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	8.2	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	9.0	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	9.9	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	10.7	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	11.6	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	12.4	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	12.6	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	13.0	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	14.5	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	16.2	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	18.1	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	19.3	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	22.6	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	24.8	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	8.0	29.6
3	2	7 / 60 / 0.08	2.15	2.95	8.4	25.9
4	2	7 / 60 / 0.08	2.15	2.95	9.3	20.7
5	2	7 / 60 / 0.08	2.15	2.95	10.2	19.6
6	2	7 / 60 / 0.08	2.15	2.95	11.2	18.1
7	2	7 / 60 / 0.08	2.15	2.95	12.1	17.4
8	2	7 / 60 / 0.08	2.15	2.95	13.1	16.7
9	2	7 / 60 / 0.08	2.15	2.95	14.1	16.3
10	2	7 / 60 / 0.08	2.15	2.95	14.3	15.9
12	2	7 / 60 / 0.08	2.15	2.95	14.8	15.5
15	2	7 / 60 / 0.08	2.15	2.95	16.6	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	9.9	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	10.5	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	11.5	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	12.7	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	14.0	27.4

RoHS

ROFHU

Super Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Sheath : Polyurethane (PU) (Alternative: excellent low particle TPU material)

Condition

- Temperature range : Flexing –20℃ ~ +90℃ / Fixed –40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5

ROFHU

Super Flexible Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	5.3	4.5
3	0.2	40 / 0.08	0.58	0.98	5.6	3.9
4	0.2	40 / 0.08	0.58	0.98	6.0	3.6
5	0.2	40 / 0.08	0.58	0.98	6.7	3.4
6	0.2	40 / 0.08	0.58	0.98	6.9	3.4
7	0.2	40 / 0.08	0.58	0.98	7.5	3.3
8	0.2	40 / 0.08	0.58	0.98	8.0	3.2
9	0.2	40 / 0.08	0.58	0.98	8.4	3.1
10	0.2	40 / 0.08	0.58	0.98	8.5	3.0
12	0.2	40 / 0.08	0.58	0.98	8.8	3.0
15	0.2	40 / 0.08	0.58	0.98	9.9	2.8
20	0.2	40 / 0.08	0.58	0.98	10.7	2.5
25	0.2	40 / 0.08	0.58	0.98	11.8	1.8
30	0.2	40 / 0.08	0.58	0.98	12.4	1.8
40	0.2	40 / 0.08	0.58	0.98	14.0	1.8
50	0.2	40 / 0.08	0.58	0.98	15.3	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.2	5.6
3	0.3	60 / 0.08	0.72	1.22	6.6	4.9
4	0.3	60 / 0.08	0.72	1.22	7.1	4.5
5	0.3	60 / 0.08	0.72	1.22	7.9	4.3
6	0.3	60 / 0.08	0.72	1.22	8.2	4.2
7	0.3	60 / 0.08	0.72	1.22	9.0	4.1
8	0.3	60 / 0.08	0.72	1.22	9.5	4.0
9	0.3	60 / 0.08	0.72	1.22	10.0	3.9
10	0.3	60 / 0.08	0.72	1.22	10.2	3.8
12	0.3	60 / 0.08	0.72	1.22	10.6	3.7
15	0.3	60 / 0.08	0.72	1.22	11.9	3.5
20	0.3	60 / 0.08	0.72	1.22	12.9	3.1
25	0.3	60 / 0.08	0.72	1.22	14.3	2.3
30	0.3	60 / 0.08	0.72	1.22	15.0	2.3
40	0.3	60 / 0.08	0.72	1.22	17.0	2.3
50	0.3	60 / 0.08	0.72	1.22	18.6	2.3

ROFHU

Super Flexible Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	7.8	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	8.3	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.0	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	10.1	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	10.5	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	11.5	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	12.2	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	12.9	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	13.1	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	13.6	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	15.4	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	16.8	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	18.7	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	19.7	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	22.3	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	24.4	3.2

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	8.9	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	9.5	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	10.4	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	11.7	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	12.1	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	13.3	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	14.2	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	15.0	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	15.2	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	15.8	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	17.9	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	19.6	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	21.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	23.0	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	26.1	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	28.6	4.6

ROFHU

Super Flexible Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	11.2	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	12.0	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	13.2	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	14.8	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	15.4	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	17.0	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	18.1	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	19.2	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	19.5	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	20.3	10.0
2	2	7 / 60 / 0.08	2.15	2.95	12.8	20.7
3	2	7 / 60 / 0.08	2.15	2.95	13.6	18.1
4	2	7 / 60 / 0.08	2.15	2.95	15.0	16.7
5	2	7 / 60 / 0.08	2.15	2.95	16.9	15.9
6	2	7 / 60 / 0.08	2.15	2.95	17.5	15.5
7	2	7 / 60 / 0.08	2.15	2.95	19.4	15.2

RoHS CE UL SP

ROFHU-SB

Super Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Excellent shielding effectiveness by tinned copper braid.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane (PU) (Alternative: excellent low particle TPU material)

Condition

- Temperature range : Flexing −20℃ ~ +90℃ / Fixed −40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 7.5

ROFHU-SB

Super Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	4.4	6.4
3	0.2	40 / 0.08	0.58	0.98	4.5	5.6
4	0.2	40 / 0.08	0.58	0.98	4.8	4.5
5	0.2	40 / 0.08	0.58	0.98	5.1	4.2
6	0.2	40 / 0.08	0.58	0.98	5.4	3.9
7	0.2	40 / 0.08	0.58	0.98	5.8	3.8
8	0.2	40 / 0.08	0.58	0.98	6.1	3.6
9	0.2	40 / 0.08	0.58	0.98	6.4	3.5
10	0.2	40 / 0.08	0.58	0.98	6.5	3.4
12	0.2	40 / 0.08	0.58	0.98	6.6	3.4
15	0.2	40 / 0.08	0.58	0.98	7.2	3.3
20	0.2	40 / 0.08	0.58	0.98	7.9	3.0
25	0.2	40 / 0.08	0.58	0.98	8.6	3.0
30	0.2	40 / 0.08	0.58	0.98	9.0	2.8
40	0.2	40 / 0.08	0.58	0.98	10.3	2.5
50	0.2	40 / 0.08	0.58	0.98	11.1	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	4.9	8.0
3	0.3	60 / 0.08	0.72	1.22	5.1	7.0
4	0.3	60 / 0.08	0.72	1.22	5.4	5.6
5	0.3	60 / 0.08	0.72	1.22	5.8	5.3
6	0.3	60 / 0.08	0.72	1.22	6.2	4.9
7	0.3	60 / 0.08	0.72	1.22	6.6	4.7
8	0.3	60 / 0.08	0.72	1.22	7.0	4.5
9	0.3	60 / 0.08	0.72	1.22	7.4	4.4
10	0.3	60 / 0.08	0.72	1.22	7.5	4.3
12	0.3	60 / 0.08	0.72	1.22	7.7	4.2
15	0.3	60 / 0.08	0.72	1.22	8.4	4.1
20	0.3	60 / 0.08	0.72	1.22	9.2	3.8
25	0.3	60 / 0.08	0.72	1.22	10.2	3.7
30	0.3	60 / 0.08	0.72	1.22	10.7	3.5
40	0.3	60 / 0.08	0.72	1.22	12.4	3.1
50	0.3	60 / 0.08	0.72	1.22	13.4	2.3

ROFHU-SB

Super Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	5.8	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	6.1	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	6.5	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	7.0	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	7.6	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	8.1	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	8.7	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	9.2	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	9.3	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	9.6	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	10.6	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	11.7	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	13.0	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	13.7	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	16.0	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	17.5	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	6.4	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	6.8	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	7.3	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	7.9	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	8.5	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	9.2	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	9.8	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	10.5	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	10.6	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	10.9	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	12.2	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	13.5	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	15.0	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	15.9	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	18.6	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	20.2	4.6

ROFHU-SB

Super Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	7.8	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	8.2	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	8.9	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	9.7	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	10.5	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	11.4	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	12.3	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	13.2	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	13.4	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	13.8	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	15.4	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	17.2	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	19.1	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	20.3	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	23.6	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	25.7	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	8.6	29.6
3	2	7 / 60 / 0.08	2.15	2.95	9.1	25.9
4	2	7 / 60 / 0.08	2.15	2.95	9.9	20.7
5	2	7 / 60 / 0.08	2.15	2.95	10.9	19.6
6	2	7 / 60 / 0.08	2.15	2.95	11.8	18.1
7	2	7 / 60 / 0.08	2.15	2.95	12.9	17.4
8	2	7 / 60 / 0.08	2.15	2.95	13.9	16.7
9	2	7 / 60 / 0.08	2.15	2.95	15.0	16.3
10	2	7 / 60 / 0.08	2.15	2.95	15.2	15.9
12	2	7 / 60 / 0.08	2.15	2.95	15.7	15.5
15	2	7 / 60 / 0.08	2.15	2.95	17.5	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	10.5	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	11.1	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	12.3	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	13.5	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	14.8	27.4

RoHS CE UL SPA

ROFHU-SB

Super Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Excellent shielding effectiveness by tinned copper braid.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane (PU) (Alternative: excellent low particle TPU material)

Condition

- Temperature range : Flexing –20℃ ~ +90℃ / Fixed –40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Bending radius : Overall diameter X 7.5

ROFHU-SB

Super Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	6.0	4.5
3	0.2	40 / 0.08	0.58	0.98	6.2	3.9
4	0.2	40 / 0.08	0.58	0.98	6.7	3.6
5	0.2	40 / 0.08	0.58	0.98	7.3	3.4
6	0.2	40 / 0.08	0.58	0.98	7.5	3.4
7	0.2	40 / 0.08	0.58	0.98	8.2	3.3
8	0.2	40 / 0.08	0.58	0.98	8.6	3.2
9	0.2	40 / 0.08	0.58	0.98	9.0	3.1
10	0.2	40 / 0.08	0.58	0.98	9.1	3.0
12	0.2	40 / 0.08	0.58	0.98	9.4	3.0
15	0.2	40 / 0.08	0.58	0.98	10.5	2.8
20	0.2	40 / 0.08	0.58	0.98	11.4	2.5
25	0.2	40 / 0.08	0.58	0.98	12.6	1.8
30	0.2	40 / 0.08	0.58	0.98	13.2	1.8
40	0.2	40 / 0.08	0.58	0.98	14.8	1.8
50	0.2	40 / 0.08	0.58	0.98	16.1	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.9	5.6
3	0.3	60 / 0.08	0.72	1.22	7.2	4.9
4	0.3	60 / 0.08	0.72	1.22	7.8	4.5
5	0.3	60 / 0.08	0.72	1.22	8.6	4.3
6	0.3	60 / 0.08	0.72	1.22	8.8	4.2
7	0.3	60 / 0.08	0.72	1.22	9.6	4.1
8	0.3	60 / 0.08	0.72	1.22	10.2	4.0
9	0.3	60 / 0.08	0.72	1.22	10.7	3.9
10	0.3	60 / 0.08	0.72	1.22	10.8	3.8
12	0.3	60 / 0.08	0.72	1.22	11.2	3.7
15	0.3	60 / 0.08	0.72	1.22	12.6	3.5
20	0.3	60 / 0.08	0.72	1.22	13.7	3.1
25	0.3	60 / 0.08	0.72	1.22	15.2	2.3
30	0.3	60 / 0.08	0.72	1.22	15.9	2.3
40	0.3	60 / 0.08	0.72	1.22	18.0	2.3
50	0.3	60 / 0.08	0.72	1.22	19.6	2.3

ROFHU-SB

Super Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	8.4	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	8.9	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	9.7	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	10.7	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	11.1	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	12.3	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	13.0	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	13.7	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	13.9	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	14.5	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	16.3	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	17.8	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	19.6	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	20.6	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	23.3	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	25.4	3.2

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	9.6	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	10.1	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	11.0	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	12.4	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	12.8	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	14.1	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	15.0	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	15.9	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	16.1	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	16.8	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	18.9	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	20.6	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	22.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	23.9	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	27.1	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	29.6	4.6

ROFHU-SB

Super Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	11.9	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	12.7	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	13.9	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	15.7	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	16.2	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	18.0	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	19.1	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	20.2	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	20.5	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	21.3	10.0
2	2	7 / 60 / 0.08	2.15	2.95	13.5	20.7
3	2	7 / 60 / 0.08	2.15	2.95	14.3	18.1
4	2	7 / 60 / 0.08	2.15	2.95	15.8	16.7
5	2	7 / 60 / 0.08	2.15	2.95	17.9	15.9
6	2	7 / 60 / 0.08	2.15	2.95	18.5	15.5
7	2	7 / 60 / 0.08	2.15	2.95	20.4	15.2

Find out what LS Factory Automation Cable can do to your FA system.

ROFHVU

ROFHVU-SB

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ROFHVU

Super Flexible Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Double sheath improves the life where there is torsion and high speed bending stress.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Bedding : Special Polyvinyl Chloride (PVC)
- Sheath : Polyurethane (PU)

Condition

- Temperature range : Flexing −20℃ ~ +90℃ / Fixed −40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5 (2~15C) / Overall diameter X 7.5 (16~50C)

ROFHVU

Super Flexible Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	4.9	6.4
3	0.2	40 / 0.08	0.58	0.98	5.0	5.6
4	0.2	40 / 0.08	0.58	0.98	5.3	4.5
5	0.2	40 / 0.08	0.58	0.98	5.6	4.2
6	0.2	40 / 0.08	0.58	0.98	6.0	3.9
7	0.2	40 / 0.08	0.58	0.98	6.3	3.8
8	0.2	40 / 0.08	0.58	0.98	6.7	3.6
9	0.2	40 / 0.08	0.58	0.98	7.0	3.5
10	0.2	40 / 0.08	0.58	0.98	7.1	3.4
12	0.2	40 / 0.08	0.58	0.98	7.2	3.4
15	0.2	40 / 0.08	0.58	0.98	7.9	3.3
20	0.2	40 / 0.08	0.58	0.98	8.5	3.0
25	0.2	40 / 0.08	0.58	0.98	9.3	3.0
30	0.2	40 / 0.08	0.58	0.98	9.8	2.8
40	0.2	40 / 0.08	0.58	0.98	11.1	2.5
50	0.2	40 / 0.08	0.58	0.98	12.0	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	5.4	8.0
3	0.3	60 / 0.08	0.72	1.22	5.6	7.0
4	0.3	60 / 0.08	0.72	1.22	6.0	5.6
5	0.3	60 / 0.08	0.72	1.22	6.4	5.3
6	0.3	60 / 0.08	0.72	1.22	6.8	4.9
7	0.3	60 / 0.08	0.72	1.22	7.2	4.7
8	0.3	60 / 0.08	0.72	1.22	7.6	4.5
9	0.3	60 / 0.08	0.72	1.22	8.1	4.4
10	0.3	60 / 0.08	0.72	1.22	8.2	4.3
12	0.3	60 / 0.08	0.72	1.22	8.4	4.2
15	0.3	60 / 0.08	0.72	1.22	9.1	4.1
20	0.3	60 / 0.08	0.72	1.22	10.0	3.8
25	0.3	60 / 0.08	0.72	1.22	10.9	3.7
30	0.3	60 / 0.08	0.72	1.22	11.5	3.5
40	0.3	60 / 0.08	0.72	1.22	13.2	3.1
50	0.3	60 / 0.08	0.72	1.22	14.3	2.3

ROFHVU

Super Flexible Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	6.4	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	6.6	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	7.1	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	7.7	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	8.2	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	8.8	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	9.4	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	9.9	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	10.1	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	10.3	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	11.4	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	12.5	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	13.8	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	14.6	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	16.8	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	18.3	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	7.0	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	7.4	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	7.9	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	8.6	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	9.2	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	9.9	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	10.6	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	11.2	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	11.4	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	11.8	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	13.0	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	14.3	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	15.8	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	16.7	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	19.4	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	21.1	4.6

ROFHVU

Super Flexible Non Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	8.4	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	8.8	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	9.6	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	10.4	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	11.3	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	12.2	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	13.1	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	14.0	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	14.2	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	14.6	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	16.2	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	18.0	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	20.0	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	21.2	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	24.7	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	26.9	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	9.3	29.6
3	2	7 / 60 / 0.08	2.15	2.95	9.8	25.9
4	2	7 / 60 / 0.08	2.15	2.95	10.7	20.7
5	2	7 / 60 / 0.08	2.15	2.95	11.7	19.6
6	2	7 / 60 / 0.08	2.15	2.95	12.7	18.1
7	2	7 / 60 / 0.08	2.15	2.95	13.7	17.4
8	2	7 / 60 / 0.08	2.15	2.95	14.7	16.7
9	2	7 / 60 / 0.08	2.15	2.95	15.7	16.3
10	2	7 / 60 / 0.08	2.15	2.95	16.0	15.9
12	2	7 / 60 / 0.08	2.15	2.95	16.5	15.5
15	2	7 / 60 / 0.08	2.15	2.95	18.3	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	11.3	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	11.9	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	13.1	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	14.3	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	15.6	27.4

RoHS CE UL SPA

ROFHVU

Super Flexible Non Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Double sheath improves the life where there is torsion and high speed bending stress.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Bedding : Special Polyvinyl Chloride (PVC)
- Sheath : Polyurethane (PU)

Condition

- Temperature range : Flexing −20℃ ~ +90℃ / Fixed −40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5 (2~15C) / Overall diameter X 7.5 (16~50C)

ROFHVU

Super Flexible Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	6.5	4.5
3	0.2	40 / 0.08	0.58	0.98	6.8	3.9
4	0.2	40 / 0.08	0.58	0.98	7.3	3.6
5	0.2	40 / 0.08	0.58	0.98	8.0	3.4
6	0.2	40 / 0.08	0.58	0.98	8.2	3.4
7	0.2	40 / 0.08	0.58	0.98	8.9	3.3
8	0.2	40 / 0.08	0.58	0.98	9.3	3.2
9	0.2	40 / 0.08	0.58	0.98	9.7	3.1
10	0.2	40 / 0.08	0.58	0.98	9.9	3.0
12	0.2	40 / 0.08	0.58	0.98	10.2	3.0
15	0.2	40 / 0.08	0.58	0.98	11.3	2.8
20	0.2	40 / 0.08	0.58	0.98	12.2	2.5
25	0.2	40 / 0.08	0.58	0.98	13.3	1.8
30	0.2	40 / 0.08	0.58	0.98	14.0	1.8
40	0.2	40 / 0.08	0.58	0.98	15.6	1.8
50	0.2	40 / 0.08	0.58	0.98	17.0	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	7.5	5.6
3	0.3	60 / 0.08	0.72	1.22	7.8	4.9
4	0.3	60 / 0.08	0.72	1.22	8.4	4.5
5	0.3	60 / 0.08	0.72	1.22	9.3	4.3
6	0.3	60 / 0.08	0.72	1.22	9.5	4.2
7	0.3	60 / 0.08	0.72	1.22	10.4	4.1
8	0.3	60 / 0.08	0.72	1.22	10.9	4.0
9	0.3	60 / 0.08	0.72	1.22	11.5	3.9
10	0.3	60 / 0.08	0.72	1.22	11.6	3.8
12	0.3	60 / 0.08	0.72	1.22	12.0	3.7
15	0.3	60 / 0.08	0.72	1.22	13.4	3.5
20	0.3	60 / 0.08	0.72	1.22	14.5	3.1
25	0.3	60 / 0.08	0.72	1.22	16.0	2.3
30	0.3	60 / 0.08	0.72	1.22	16.7	2.3
40	0.3	60 / 0.08	0.72	1.22	18.8	2.3
50	0.3	60 / 0.08	0.72	1.22	20.5	2.3

ROFHVU

Super Flexible Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	9.1	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	9.6	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	10.4	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	11.6	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	11.9	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	13.0	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	13.8	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	14.5	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	14.7	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	15.3	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	17.1	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	18.6	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	20.5	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	21.6	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	24.4	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	26.6	3.2

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	10.3	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	10.9	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	11.9	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	13.2	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	13.6	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	14.9	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	15.8	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	16.7	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	16.9	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	17.6	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	19.8	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	21.5	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	23.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	25.0	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	28.3	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	31.0	4.6

ROFHVU

Super Flexible Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	12.7	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	13.5	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	14.8	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	16.5	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	17.1	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	18.8	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	20.0	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	21.1	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	21.4	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	22.3	10.0
2	2	7 / 60 / 0.08	2.15	2.95	14.3	20.7
3	2	7 / 60 / 0.08	2.15	2.95	15.2	18.1
4	2	7 / 60 / 0.08	2.15	2.95	16.7	16.7
5	2	7 / 60 / 0.08	2.15	2.95	18.7	15.9
6	2	7 / 60 / 0.08	2.15	2.95	19.3	15.5
7	2	7 / 60 / 0.08	2.15	2.95	21.3	15.2

RoHS

ROFHVU-SB

Super Flexible Shielded Core Type.

Application

- Signal interconnecting or power supply cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Double sheath improves the life where there is torsion and high speed bending stress.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Bedding : Special Polyvinyl Chloride (PVC)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane (PU)

Condition

- Temperature range : Flexing −20℃ ~ +90℃ / Fixed −40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5 (2~15C) / Overall diameter X 7.5 (16~50C)

ROFHVU-SB

Super Flexible Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	5.5	6.4
3	0.2	40 / 0.08	0.58	0.98	5.7	5.6
4	0.2	40 / 0.08	0.58	0.98	6.0	4.5
5	0.2	40 / 0.08	0.58	0.98	6.3	4.2
6	0.2	40 / 0.08	0.58	0.98	6.6	3.9
7	0.2	40 / 0.08	0.58	0.98	7.0	3.8
8	0.2	40 / 0.08	0.58	0.98	7.3	3.6
9	0.2	40 / 0.08	0.58	0.98	7.6	3.5
10	0.2	40 / 0.08	0.58	0.98	7.7	3.4
12	0.2	40 / 0.08	0.58	0.98	7.9	3.4
15	0.2	40 / 0.08	0.58	0.98	8.5	3.3
20	0.2	40 / 0.08	0.58	0.98	9.2	3.0
25	0.2	40 / 0.08	0.58	0.98	9.9	3.0
30	0.2	40 / 0.08	0.58	0.98	10.4	2.8
40	0.2	40 / 0.08	0.58	0.98	11.9	2.5
50	0.2	40 / 0.08	0.58	0.98	12.7	1.8

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	6.0	8.0
3	0.3	60 / 0.08	0.72	1.22	6.3	7.0
4	0.3	60 / 0.08	0.72	1.22	6.6	5.6
5	0.3	60 / 0.08	0.72	1.22	7.0	5.3
6	0.3	60 / 0.08	0.72	1.22	7.4	4.9
7	0.3	60 / 0.08	0.72	1.22	7.9	4.7
8	0.3	60 / 0.08	0.72	1.22	8.3	4.5
9	0.3	60 / 0.08	0.72	1.22	8.7	4.4
10	0.3	60 / 0.08	0.72	1.22	8.8	4.3
12	0.3	60 / 0.08	0.72	1.22	9.0	4.2
15	0.3	60 / 0.08	0.72	1.22	9.8	4.1
20	0.3	60 / 0.08	0.72	1.22	10.6	3.8
25	0.3	60 / 0.08	0.72	1.22	11.6	3.7
30	0.3	60 / 0.08	0.72	1.22	12.3	3.5
40	0.3	60 / 0.08	0.72	1.22	13.9	3.1
50	0.3	60 / 0.08	0.72	1.22	15.1	2.3

ROFHVU-SB

Super Flexible Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	7.0	11.2
3	0.5	7 / 14 / 0.08	1.04	1.64	7.3	9.8
4	0.5	7 / 14 / 0.08	1.04	1.64	7.8	7.8
5	0.5	7 / 14 / 0.08	1.04	1.64	8.3	7.4
6	0.5	7 / 14 / 0.08	1.04	1.64	8.9	6.9
7	0.5	7 / 14 / 0.08	1.04	1.64	9.4	6.6
8	0.5	7 / 14 / 0.08	1.04	1.64	10.0	6.3
9	0.5	7 / 14 / 0.08	1.04	1.64	10.6	6.2
10	0.5	7 / 14 / 0.08	1.04	1.64	10.7	6.0
12	0.5	7 / 14 / 0.08	1.04	1.64	11.0	5.9
15	0.5	7 / 14 / 0.08	1.04	1.64	12.1	5.7
20	0.5	7 / 14 / 0.08	1.04	1.64	13.2	5.3
25	0.5	7 / 14 / 0.08	1.04	1.64	14.6	5.2
30	0.5	7 / 14 / 0.08	1.04	1.64	15.4	4.9
40	0.5	7 / 14 / 0.08	1.04	1.64	17.8	4.3
50	0.5	7 / 14 / 0.08	1.04	1.64	19.2	3.2

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	7.7	16.0
3	0.75	7 / 20 / 0.08	1.24	1.94	8.0	14.0
4	0.75	7 / 20 / 0.08	1.24	1.94	8.6	11.2
5	0.75	7 / 20 / 0.08	1.24	1.94	9.2	10.6
6	0.75	7 / 20 / 0.08	1.24	1.94	9.9	9.8
7	0.75	7 / 20 / 0.08	1.24	1.94	10.6	9.4
8	0.75	7 / 20 / 0.08	1.24	1.94	11.2	9.0
9	0.75	7 / 20 / 0.08	1.24	1.94	12.0	8.8
10	0.75	7 / 20 / 0.08	1.24	1.94	12.2	8.6
12	0.75	7 / 20 / 0.08	1.24	1.94	12.5	8.4
15	0.75	7 / 20 / 0.08	1.24	1.94	13.7	8.2
20	0.75	7 / 20 / 0.08	1.24	1.94	15.2	7.6
25	0.75	7 / 20 / 0.08	1.24	1.94	16.8	7.4
30	0.75	7 / 20 / 0.08	1.24	1.94	17.7	7.0
40	0.75	7 / 20 / 0.08	1.24	1.94	20.4	6.2
50	0.75	7 / 20 / 0.08	1.24	1.94	22.1	4.6

ROFHVU-SB

Super Flexible Shielded Core Type > 1.25 SQ / 2 SQ / 3.5 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	9.1	21.6
3	1.25	7 / 40 / 0.08	1.75	2.55	9.5	18.9
4	1.25	7 / 40 / 0.08	1.75	2.55	10.2	15.1
5	1.25	7 / 40 / 0.08	1.75	2.55	11.1	14.3
6	1.25	7 / 40 / 0.08	1.75	2.55	12.1	13.2
7	1.25	7 / 40 / 0.08	1.75	2.55	12.9	12.7
8	1.25	7 / 40 / 0.08	1.75	2.55	13.8	12.2
9	1.25	7 / 40 / 0.08	1.75	2.55	14.8	11.9
10	1.25	7 / 40 / 0.08	1.75	2.55	15.0	11.6
12	1.25	7 / 40 / 0.08	1.75	2.55	15.5	11.3
15	1.25	7 / 40 / 0.08	1.75	2.55	17.2	11.1
20	1.25	7 / 40 / 0.08	1.75	2.55	18.9	10.3
25	1.25	7 / 40 / 0.08	1.75	2.55	20.9	10.0
30	1.25	7 / 40 / 0.08	1.75	2.55	22.1	9.5
40	1.25	7 / 40 / 0.08	1.75	2.55	25.7	8.4
50	1.25	7 / 40 / 0.08	1.75	2.55	27.9	6.2

Core Type 2 SQ / 3.5SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	7 / 60 / 0.08	2.15	2.95	10.0	29.6
3	2	7 / 60 / 0.08	2.15	2.95	10.5	25.9
4	2	7 / 60 / 0.08	2.15	2.95	11.3	20.7
5	2	7 / 60 / 0.08	2.15	2.95	12.4	19.6
6	2	7 / 60 / 0.08	2.15	2.95	13.4	18.1
7	2	7 / 60 / 0.08	2.15	2.95	14.6	17.4
8	2	7 / 60 / 0.08	2.15	2.95	15.6	16.7
9	2	7 / 60 / 0.08	2.15	2.95	16.7	16.3
10	2	7 / 60 / 0.08	2.15	2.95	17.0	15.9
12	2	7 / 60 / 0.08	2.15	2.95	17.5	15.5
15	2	7 / 60 / 0.08	2.15	2.95	19.3	15.2
2	3.5	19 / 40 / 0.08	2.92	3.82	12.0	44.8
3	3.5	19 / 40 / 0.08	2.92	3.82	12.7	39.2
4	3.5	19 / 40 / 0.08	2.92	3.82	13.8	31.4
5	3.5	19 / 40 / 0.08	2.92	3.82	15.2	29.7
6	3.5	19 / 40 / 0.08	2.92	3.82	16.6	27.4

RoHS CE UL SPA

ROFHVU-SB

Super Flexible Shielded Pair Type.

Application

- Signal interconnecting or control cable used for the high speed cable chains of manufacturing automatic machine or arm of the industrial robots.

Feature

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of the fine wire copper strands.
- Fluorine compound insulation minimizes between cores.
- Suitable for clean room environment by the polyurethane sheath.
- Superior resistance to oil, abrasion, chemical by the polyurethane sheath.
- Double sheath improves the life where there is torsion and high speed bending stress.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Fluorine compound
- Bedding : Special Polyvinyl Chloride (PVC)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Polyurethane (PU)

Condition

- Temperature range : Flexing −20℃ ~ +90℃ / Fixed −40℃ ~ +105℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10000 MΩ. km
- Minimum Bending radius : Overall diameter X 5 (2~15C) / Overall diameter X 7.5 (16~50C)

ROFHVU-SB

Super Flexible Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	40 / 0.08	0.58	0.98	7.2	4.5
3	0.2	40 / 0.08	0.58	0.98	7.5	3.9
4	0.2	40 / 0.08	0.58	0.98	7.9	3.6
5	0.2	40 / 0.08	0.58	0.98	8.6	3.4
6	0.2	40 / 0.08	0.58	0.98	8.8	3.4
7	0.2	40 / 0.08	0.58	0.98	9.5	3.3
8	0.2	40 / 0.08	0.58	0.98	9.9	3.2
9	0.2	40 / 0.08	0.58	0.98	10.4	3.1
10	0.2	40 / 0.08	0.58	0.98	10.5	3.0
12	0.2	40 / 0.08	0.58	0.98	10.8	3.0
15	0.2	40 / 0.08	0.58	0.98	12.0	2.8
20	0.2	40 / 0.08	0.58	0.98	12.9	2.5
25	0.2	40 / 0.08	0.58	0.98	14.2	1.8
30	0.2	40 / 0.08	0.58	0.98	14.8	1.8
40	0.2	40 / 0.08	0.58	0.98	16.6	1.8
50	0.2	40 / 0.08	0.58	0.98	17.9	1.8

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	60 / 0.08	0.72	1.22	8.1	5.6
3	0.3	60 / 0.08	0.72	1.22	8.5	4.9
4	0.3	60 / 0.08	0.72	1.22	9.1	4.5
5	0.3	60 / 0.08	0.72	1.22	9.9	4.3
6	0.3	60 / 0.08	0.72	1.22	10.2	4.2
7	0.3	60 / 0.08	0.72	1.22	11.0	4.1
8	0.3	60 / 0.08	0.72	1.22	11.6	4.0
9	0.3	60 / 0.08	0.72	1.22	12.2	3.9
10	0.3	60 / 0.08	0.72	1.22	12.4	3.8
12	0.3	60 / 0.08	0.72	1.22	12.8	3.7
15	0.3	60 / 0.08	0.72	1.22	14.3	3.5
20	0.3	60 / 0.08	0.72	1.22	15.4	3.1
25	0.3	60 / 0.08	0.72	1.22	16.9	2.3
30	0.3	60 / 0.08	0.72	1.22	17.7	2.3
40	0.3	60 / 0.08	0.72	1.22	19.8	2.3
50	0.3	60 / 0.08	0.72	1.22	21.4	2.3

ROFHVU-SB

Super Flexible Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	7 / 14 / 0.08	1.04	1.64	9.8	7.8
3	0.5	7 / 14 / 0.08	1.04	1.64	10.3	6.9
4	0.5	7 / 14 / 0.08	1.04	1.64	11.1	6.3
5	0.5	7 / 14 / 0.08	1.04	1.64	12.3	6.0
6	0.5	7 / 14 / 0.08	1.04	1.64	12.7	5.9
7	0.5	7 / 14 / 0.08	1.04	1.64	13.8	5.7
8	0.5	7 / 14 / 0.08	1.04	1.64	14.6	5.6
9	0.5	7 / 14 / 0.08	1.04	1.64	15.4	5.5
10	0.5	7 / 14 / 0.08	1.04	1.64	15.6	5.3
12	0.5	7 / 14 / 0.08	1.04	1.64	16.1	5.2
15	0.5	7 / 14 / 0.08	1.04	1.64	18.1	4.9
20	0.5	7 / 14 / 0.08	1.04	1.64	19.6	4.3
25	0.5	7 / 14 / 0.08	1.04	1.64	21.5	3.2
30	0.5	7 / 14 / 0.08	1.04	1.64	22.5	3.2
40	0.5	7 / 14 / 0.08	1.04	1.64	25.3	3.2
50	0.5	7 / 14 / 0.08	1.04	1.64	27.6	3.2

Pair Type 0.75 SQ

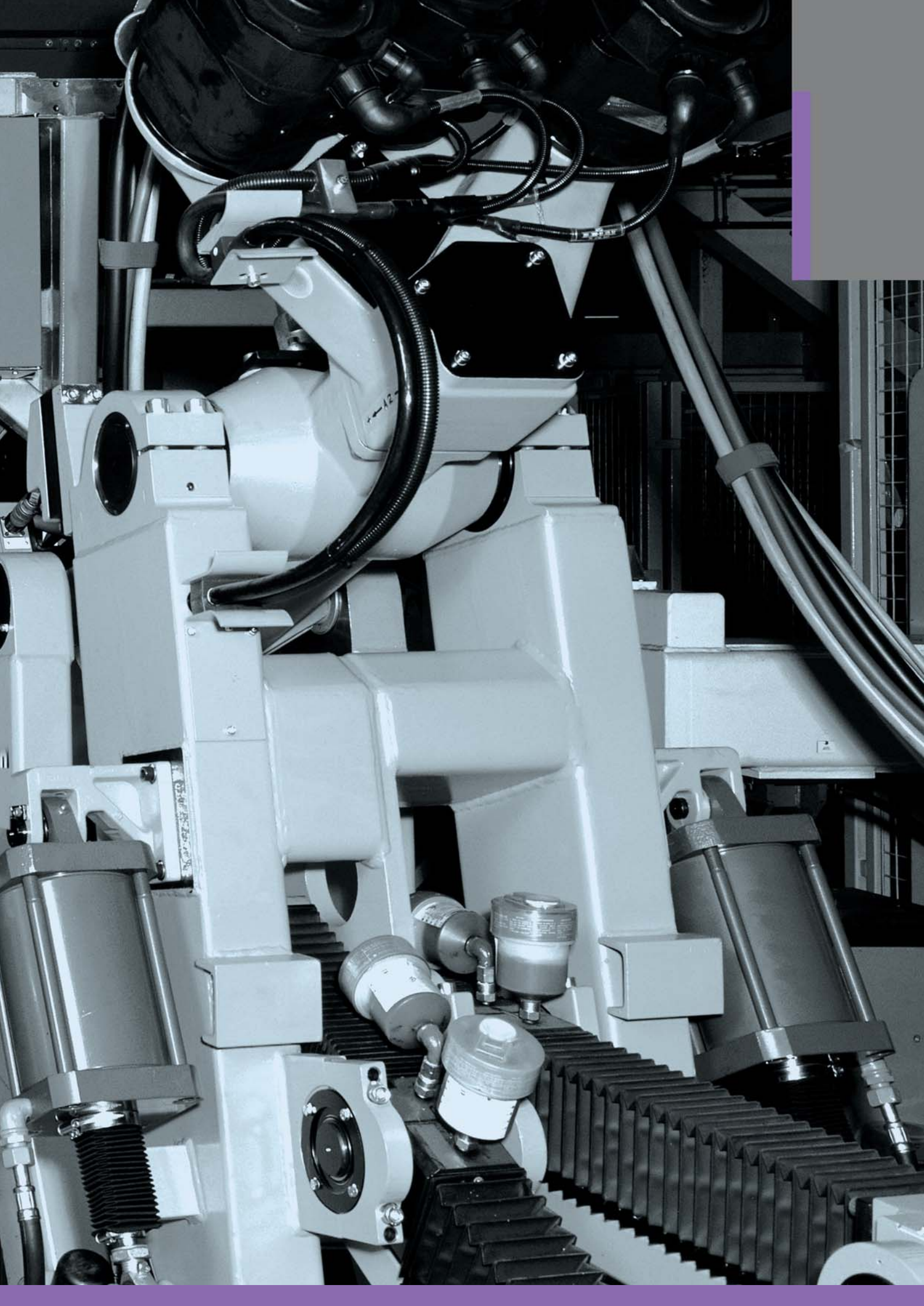
Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	7 / 20 / 0.08	1.24	1.94	11.0	11.2
3	0.75	7 / 20 / 0.08	1.24	1.94	11.5	9.8
4	0.75	7 / 20 / 0.08	1.24	1.94	12.6	9.0
5	0.75	7 / 20 / 0.08	1.24	1.94	13.9	8.6
6	0.75	7 / 20 / 0.08	1.24	1.94	14.5	8.4
7	0.75	7 / 20 / 0.08	1.24	1.94	15.8	8.2
8	0.75	7 / 20 / 0.08	1.24	1.94	16.8	8.0
9	0.75	7 / 20 / 0.08	1.24	1.94	17.7	7.8
10	0.75	7 / 20 / 0.08	1.24	1.94	17.9	7.6
12	0.75	7 / 20 / 0.08	1.24	1.94	18.5	7.4
15	0.75	7 / 20 / 0.08	1.24	1.94	20.7	7.0
20	0.75	7 / 20 / 0.08	1.24	1.94	22.5	6.2
25	0.75	7 / 20 / 0.08	1.24	1.94	24.8	4.6
30	0.75	7 / 20 / 0.08	1.24	1.94	26.0	4.6
40	0.75	7 / 20 / 0.08	1.24	1.94	29.3	4.6
50	0.75	7 / 20 / 0.08	1.24	1.94	31.9	4.6

ROFHVU-SB

Super Flexible Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ / 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	7 / 40 / 0.08	1.75	2.55	13.5	15.1
3	1.25	7 / 40 / 0.08	1.75	2.55	14.4	13.2
4	1.25	7 / 40 / 0.08	1.75	2.55	15.6	12.2
5	1.25	7 / 40 / 0.08	1.75	2.55	17.5	11.6
6	1.25	7 / 40 / 0.08	1.75	2.55	18.0	11.3
7	1.25	7 / 40 / 0.08	1.75	2.55	19.8	11.1
8	1.25	7 / 40 / 0.08	1.75	2.55	20.9	10.8
9	1.25	7 / 40 / 0.08	1.75	2.55	22.1	10.5
10	1.25	7 / 40 / 0.08	1.75	2.55	22.4	10.3
12	1.25	7 / 40 / 0.08	1.75	2.55	23.2	10.0
2	2	7 / 60 / 0.08	2.15	2.95	15.2	20.7
3	2	7 / 60 / 0.08	2.15	2.95	16.1	18.1
4	2	7 / 60 / 0.08	2.15	2.95	17.6	16.7
5	2	7 / 60 / 0.08	2.15	2.95	19.6	15.9
6	2	7 / 60 / 0.08	2.15	2.95	20.3	15.5
7	2	7 / 60 / 0.08	2.15	2.95	22.3	15.2



Find out what LS Factory Automation Cable can do to your FA system.

COVV

COVV-SB

RoHS

COVV

Non Shielded Core Type.

Application

- Signal interconnecting or power supply cable between the remote controller and the control system used for numeric control machine.

Feature

- Good soldering condition due to tinned copper.
- Good flexibility by powering the core unit to reduce friction and maintain core separation.
- Specially formulated soft PVC insulation and sheath improve the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Polyvinyl Chloride (PVC)
- Sheath : Polyvinyl Chloride (PVC)

Condition

- Temperature range (Fixed) : –20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10㏁. ㎞
- Minimum Bending radius (Fixed) : Overall diameter X 4

COVV

Non Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	7 / 0.2	0.6	1.1	4.0	4.0
3	0.2	7 / 0.2	0.6	1.1	4.2	3.5
4	0.2	7 / 0.2	0.6	1.1	4.5	2.8
5	0.2	7 / 0.2	0.6	1.1	4.8	2.7
6	0.2	7 / 0.2	0.6	1.1	5.2	2.5
7	0.2	7 / 0.2	0.6	1.1	5.2	2.4
8	0.2	7 / 0.2	0.6	1.1	5.5	2.3
9	0.2	7 / 0.2	0.6	1.1	5.9	2.2
10	0.2	7 / 0.2	0.6	1.1	6.4	2.2
12	0.2	7 / 0.2	0.6	1.1	6.5	2.1
15	0.2	7 / 0.2	0.6	1.1	7.2	2.1
20	0.2	7 / 0.2	0.6	1.1	7.9	1.9
25	0.2	7 / 0.2	0.6	1.1	8.7	1.9
30	0.2	7 / 0.2	0.6	1.1	9.2	1.8
40	0.2	7 / 0.2	0.6	1.1	10.3	1.6
50	0.2	7 / 0.2	0.6	1.1	11.6	1.2

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	12 / 0.18	0.72	1.32	4.5	4.8
3	0.3	12 / 0.18	0.72	1.32	4.7	4.2
4	0.3	12 / 0.18	0.72	1.32	5.0	3.4
5	0.3	12 / 0.18	0.72	1.32	5.4	3.2
6	0.3	12 / 0.18	0.72	1.32	5.9	2.9
7	0.3	12 / 0.18	0.72	1.32	5.9	2.8
8	0.3	12 / 0.18	0.72	1.32	6.3	2.7
9	0.3	12 / 0.18	0.72	1.32	6.8	2.6
10	0.3	12 / 0.18	0.72	1.32	7.3	2.6
12	0.3	12 / 0.18	0.72	1.32	7.5	2.5
15	0.3	12 / 0.18	0.72	1.32	8.3	2.5
20	0.3	12 / 0.18	0.72	1.32	9.2	2.3
25	0.3	12 / 0.18	0.72	1.32	10.2	2.2
30	0.3	12 / 0.18	0.72	1.32	10.8	2.1
40	0.3	12 / 0.18	0.72	1.32	12.0	1.9
50	0.3	12 / 0.18	0.72	1.32	13.6	1.4

COVV

Non Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	20 / 0.18	0.93	1.73	5.3	7.2
3	0.5	20 / 0.18	0.93	1.73	5.6	6.3
4	0.5	20 / 0.18	0.93	1.73	6.1	5.0
5	0.5	20 / 0.18	0.93	1.73	6.6	4.8
6	0.5	20 / 0.18	0.93	1.73	7.2	4.4
7	0.5	20 / 0.18	0.93	1.73	7.2	4.2
8	0.5	20 / 0.18	0.93	1.73	7.8	4.1
9	0.5	20 / 0.18	0.93	1.73	8.4	4.0
10	0.5	20 / 0.18	0.93	1.73	9.1	3.9
12	0.5	20 / 0.18	0.93	1.73	9.4	3.8
15	0.5	20 / 0.18	0.93	1.73	10.4	3.7
20	0.5	20 / 0.18	0.93	1.73	11.5	3.4
25	0.5	20 / 0.18	0.93	1.73	12.8	3.3
30	0.5	20 / 0.18	0.93	1.73	13.6	3.2
40	0.5	20 / 0.18	0.93	1.73	15.3	2.8
50	0.5	20 / 0.18	0.93	1.73	17.3	2.1

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	30 / 0.18	1.14	1.94	5.8	9.6
3	0.75	30 / 0.18	1.14	1.94	6.1	8.4
4	0.75	30 / 0.18	1.14	1.94	6.6	6.7
5	0.75	30 / 0.18	1.14	1.94	7.3	6.4
6	0.75	30 / 0.18	1.14	1.94	7.9	5.9
7	0.75	30 / 0.18	1.14	1.94	7.9	5.6
8	0.75	30 / 0.18	1.14	1.94	8.5	5.4
9	0.75	30 / 0.18	1.14	1.94	9.2	5.3
10	0.75	30 / 0.18	1.14	1.94	10.0	5.2
12	0.75	30 / 0.18	1.14	1.94	10.3	5.0
15	0.75	30 / 0.18	1.14	1.94	11.4	4.9
20	0.75	30 / 0.18	1.14	1.94	12.7	4.6
25	0.75	30 / 0.18	1.14	1.94	14.2	4.4
30	0.75	30 / 0.18	1.14	1.94	15.1	4.2
40	0.75	30 / 0.18	1.14	1.94	16.9	3.7
50	0.75	30 / 0.18	1.14	1.94	19.2	2.8

COVV

Non Shielded Core Type > 1.25 SQ / 2 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	50 / 0.18	1.47	2.37	6.7	13.6
3	1.25	50 / 0.18	1.47	2.37	7.1	11.9
4	1.25	50 / 0.18	1.47	2.37	7.8	9.5
5	1.25	50 / 0.18	1.47	2.37	8.5	9.0
6	1.25	50 / 0.18	1.47	2.37	9.3	8.3
7	1.25	50 / 0.18	1.47	2.37	9.3	8.0
8	1.25	50 / 0.18	1.47	2.37	10.1	7.7
9	1.25	50 / 0.18	1.47	2.37	10.9	7.5
10	1.25	50 / 0.18	1.47	2.37	11.8	7.3
12	1.25	50 / 0.18	1.47	2.37	12.2	7.1
15	1.25	50 / 0.18	1.47	2.37	13.6	7.0
20	1.25	50 / 0.18	1.47	2.37	15.2	6.5
25	1.25	50 / 0.18	1.47	2.37	17.0	6.3
30	1.25	50 / 0.18	1.47	2.37	18.0	6.0
40	1.25	50 / 0.18	1.47	2.37	20.3	5.3
50	1.25	50 / 0.18	1.47	2.37	23.1	3.9

Core Type 2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	37 / 0.26	1.83	2.83	7.7	18.4
3	2	37 / 0.26	1.83	2.83	8.2	16.1
4	2	37 / 0.26	1.83	2.83	9.0	12.9
5	2	37 / 0.26	1.83	2.83	9.9	12.2
6	2	37 / 0.26	1.83	2.83	10.8	11.3
7	2	37 / 0.26	1.83	2.83	10.8	10.8
8	2	37 / 0.26	1.83	2.83	11.7	10.4
9	2	37 / 0.26	1.83	2.83	12.7	10.1
10	2	37 / 0.26	1.83	2.83	13.8	9.9
12	2	37 / 0.26	1.83	2.83	14.3	9.7
15	2	37 / 0.26	1.83	2.83	16.0	9.4
20	2	37 / 0.26	1.83	2.83	17.8	8.7
25	2	37 / 0.26	1.83	2.83	19.9	8.5
30	2	37 / 0.26	1.83	2.83	21.2	8.1
40	2	37 / 0.26	1.83	2.83	23.9	7.1
50	2	37 / 0.26	1.83	2.83	27.3	5.3

RoHS

COVV

Non Shielded Pair Type.

Application

- Signal interconnecting or control cable between the remote controller and the control system used for numeric control machine.

Feature

- Good soldering condition due to tinned copper.
- Good flexibility by powering the core unit to reduce friction and maintain core separation.
- Specially formulated soft PVC insulation and sheath improve the life of cable.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Polyvinyl Chloride (PVC)
- Sheath : Polyvinyl Chloride (PVC)

Condition

- Temperature range (Fixed) : –20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10㏁. ㎞
- Minimum Bending radius (Fixed) : Overall diameter X 4

COVV

Non Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	7 / 0.2	0.6	1.1	5.8	2.8
3	0.2	7 / 0.2	0.6	1.1	6.1	2.5
4	0.2	7 / 0.2	0.6	1.1	6.6	2.3
5	0.2	7 / 0.2	0.6	1.1	7.3	2.2
6	0.2	7 / 0.2	0.6	1.1	7.5	2.1
7	0.2	7 / 0.2	0.6	1.1	7.5	2.1
8	0.2	7 / 0.2	0.6	1.1	8.3	2.0
9	0.2	7 / 0.2	0.6	1.1	8.7	2.0
10	0.2	7 / 0.2	0.6	1.1	9.3	1.9
12	0.2	7 / 0.2	0.6	1.1	9.7	1.9
15	0.2	7 / 0.2	0.6	1.1	10.4	1.8
20	0.2	7 / 0.2	0.6	1.1	11.3	1.6
25	0.2	7 / 0.2	0.6	1.1	13.0	1.2
30	0.2	7 / 0.2	0.6	1.1	13.7	1.2
40	0.2	7 / 0.2	0.6	1.1	15.4	1.2
50	0.2	7 / 0.2	0.6	1.1	16.9	1.2

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	12 / 0.18	0.72	1.32	6.6	3.4
3	0.3	12 / 0.18	0.72	1.32	7.0	2.9
4	0.3	12 / 0.18	0.72	1.32	7.6	2.7
5	0.3	12 / 0.18	0.72	1.32	8.4	2.6
6	0.3	12 / 0.18	0.72	1.32	8.7	2.5
7	0.3	12 / 0.18	0.72	1.32	8.7	2.5
8	0.3	12 / 0.18	0.72	1.32	9.6	2.4
9	0.3	12 / 0.18	0.72	1.32	10.2	2.3
10	0.3	12 / 0.18	0.72	1.32	10.9	2.3
12	0.3	12 / 0.18	0.72	1.32	11.3	2.2
15	0.3	12 / 0.18	0.72	1.32	12.1	2.1
20	0.3	12 / 0.18	0.72	1.32	13.3	1.9
25	0.3	12 / 0.18	0.72	1.32	15.3	1.4
30	0.3	12 / 0.18	0.72	1.32	16.1	1.4
40	0.3	12 / 0.18	0.72	1.32	18.1	1.4
50	0.3	12 / 0.18	0.72	1.32	20.0	1.4

COVV

Non Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	20 / 0.18	0.93	1.73	8.1	5.0
3	0.5	20 / 0.18	0.93	1.73	8.6	4.4
4	0.5	20 / 0.18	0.93	1.73	9.4	4.1
5	0.5	20 / 0.18	0.93	1.73	10.6	3.9
6	0.5	20 / 0.18	0.93	1.73	10.9	3.8
7	0.5	20 / 0.18	0.93	1.73	10.9	3.7
8	0.5	20 / 0.18	0.93	1.73	12.1	3.6
9	0.5	20 / 0.18	0.93	1.73	12.8	3.5
10	0.5	20 / 0.18	0.93	1.73	13.7	3.4
12	0.5	20 / 0.18	0.93	1.73	14.3	3.3
15	0.5	20 / 0.18	0.93	1.73	15.4	3.2
20	0.5	20 / 0.18	0.93	1.73	16.9	2.8
25	0.5	20 / 0.18	0.93	1.73	19.5	2.1
30	0.5	20 / 0.18	0.93	1.73	20.7	2.1
40	0.5	20 / 0.18	0.93	1.73	23.3	2.1
50	0.5	20 / 0.18	0.93	1.73	25.7	2.1

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	30 / 0.18	1.14	1.94	8.9	6.7
3	0.75	30 / 0.18	1.14	1.94	9.5	5.9
4	0.75	30 / 0.18	1.14	1.94	10.4	5.4
5	0.75	30 / 0.18	1.14	1.94	11.7	5.2
6	0.75	30 / 0.18	1.14	1.94	12.1	5.0
7	0.75	30 / 0.18	1.14	1.94	12.1	4.9
8	0.75	30 / 0.18	1.14	1.94	13.3	4.8
9	0.75	30 / 0.18	1.14	1.94	14.2	4.7
10	0.75	30 / 0.18	1.14	1.94	15.2	4.6
12	0.75	30 / 0.18	1.14	1.94	15.8	4.4
15	0.75	30 / 0.18	1.14	1.94	17.1	4.2
20	0.75	30 / 0.18	1.14	1.94	18.8	3.7
25	0.75	30 / 0.18	1.14	1.94	21.7	2.8
30	0.75	30 / 0.18	1.14	1.94	23.0	2.8
40	0.75	30 / 0.18	1.14	1.94	25.9	2.8
50	0.75	30 / 0.18	1.14	1.94	28.6	2.8

COVV

Non Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	50 / 0.18	1.47	2.37	10.6	9.5
3	1.25	50 / 0.18	1.47	2.37	11.2	8.3
4	1.25	50 / 0.18	1.47	2.37	12.4	7.7
5	1.25	50 / 0.18	1.47	2.37	13.9	7.3
6	1.25	50 / 0.18	1.47	2.37	14.4	7.1
7	1.25	50 / 0.18	1.47	2.37	14.4	7.0
8	1.25	50 / 0.18	1.47	2.37	15.9	6.8
9	1.25	50 / 0.18	1.47	2.37	17.0	6.6
10	1.25	50 / 0.18	1.47	2.37	18.2	6.5
12	1.25	50 / 0.18	1.47	2.37	19.0	6.3
15	1.25	50 / 0.18	1.47	2.37	20.5	6.0
20	1.25	50 / 0.18	1.47	2.37	22.6	5.3
25	1.25	50 / 0.18	1.47	2.37	26.2	3.9
30	1.25	50 / 0.18	1.47	2.37	27.7	3.9
40	1.25	50 / 0.18	1.47	2.37	31.3	3.9
50	1.25	50 / 0.18	1.47	2.37	34.6	3.9

Pair Type 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	37 / 0.26	1.83	2.83	12.3	12.9
3	2	37 / 0.26	1.83	2.83	13.1	11.3
4	2	37 / 0.26	1.83	2.83	14.4	10.4
5	2	37 / 0.26	1.83	2.83	16.3	9.9
6	2	37 / 0.26	1.83	2.83	16.9	9.7
7	2	37 / 0.26	1.83	2.83	16.9	9.4
8	2	37 / 0.26	1.83	2.83	18.7	9.2
9	2	37 / 0.26	1.83	2.83	19.9	9.0
10	2	37 / 0.26	1.83	2.83	21.5	8.7
12	2	37 / 0.26	1.83	2.83	22.4	8.5
15	2	37 / 0.26	1.83	2.83	24.2	8.1
20	2	37 / 0.26	1.83	2.83	26.7	7.1
25	2	37 / 0.26	1.83	2.83	30.9	5.3
30	2	37 / 0.26	1.83	2.83	32.8	5.3
40	2	37 / 0.26	1.83	2.83	37.1	5.3
50	2	37 / 0.26	1.83	2.83	41.0	5.3

RoHS

COVV-SB

Shielded Core Type.

Application

- Signal interconnecting or power supply cable between the remote controller and the control system used for numeric control machine.

Feature

- Good soldering condition due to tinned copper.
- Good flexibility by powering the core unit to reduce friction and maintain core separation.
- Specially formulated soft PVC insulation and sheath improve the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Polyvinyl Chloride (PVC)
- Sheath : Polyvinyl Chloride (PVC)

Condition

- Temperature range (Fixed) : −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 10㏁. ㎞
- Minimum Bending radius (Fixed) : Overall diameter X 6

COVV-SB

Shielded Core Type > 0.2 SQ / 0.3 SQ

Core Type 0.2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	7 / 0.2	0.6	1.1	4.6	4.0
3	0.2	7 / 0.2	0.6	1.1	4.8	3.5
4	0.2	7 / 0.2	0.6	1.1	5.1	2.8
5	0.2	7 / 0.2	0.6	1.1	5.5	2.7
6	0.2	7 / 0.2	0.6	1.1	5.8	2.5
7	0.2	7 / 0.2	0.6	1.1	5.8	2.4
8	0.2	7 / 0.2	0.6	1.1	6.2	2.3
9	0.2	7 / 0.2	0.6	1.1	6.5	2.2
10	0.2	7 / 0.2	0.6	1.1	7.0	2.2
12	0.2	7 / 0.2	0.6	1.1	7.2	2.1
15	0.2	7 / 0.2	0.6	1.1	7.8	2.1
20	0.2	7 / 0.2	0.6	1.1	8.6	1.9
25	0.2	7 / 0.2	0.6	1.1	9.4	1.9
30	0.2	7 / 0.2	0.6	1.1	9.9	1.8
40	0.2	7 / 0.2	0.6	1.1	10.9	1.6
50	0.2	7 / 0.2	0.6	1.1	12.3	1.2

Core Type 0.3 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	12 / 0.18	0.72	1.32	5.1	4.8
3	0.3	12 / 0.18	0.72	1.32	5.3	4.2
4	0.3	12 / 0.18	0.72	1.32	5.7	3.4
5	0.3	12 / 0.18	0.72	1.32	6.1	3.2
6	0.3	12 / 0.18	0.72	1.32	6.5	2.9
7	0.3	12 / 0.18	0.72	1.32	6.5	2.8
8	0.3	12 / 0.18	0.72	1.32	7.0	2.7
9	0.3	12 / 0.18	0.72	1.32	7.4	2.6
10	0.3	12 / 0.18	0.72	1.32	8.0	2.6
12	0.3	12 / 0.18	0.72	1.32	8.2	2.5
15	0.3	12 / 0.18	0.72	1.32	8.9	2.5
20	0.3	12 / 0.18	0.72	1.32	9.8	2.3
25	0.3	12 / 0.18	0.72	1.32	10.8	2.2
30	0.3	12 / 0.18	0.72	1.32	11.4	2.1
40	0.3	12 / 0.18	0.72	1.32	12.8	1.9
50	0.3	12 / 0.18	0.72	1.32	14.3	1.4

COVV-SB

Shielded Core Type > 0.5 SQ / 0.75 SQ

Core Type 0.5 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	20 / 0.18	0.93	1.73	6.0	7.2
3	0.5	20 / 0.18	0.93	1.73	6.3	6.3
4	0.5	20 / 0.18	0.93	1.73	6.8	5.0
5	0.5	20 / 0.18	0.93	1.73	7.3	4.8
6	0.5	20 / 0.18	0.93	1.73	7.9	4.4
7	0.5	20 / 0.18	0.93	1.73	7.9	4.2
8	0.5	20 / 0.18	0.93	1.73	8.4	4.1
9	0.5	20 / 0.18	0.93	1.73	9.0	4.0
10	0.5	20 / 0.18	0.93	1.73	9.7	3.9
12	0.5	20 / 0.18	0.93	1.73	10.0	3.8
15	0.5	20 / 0.18	0.93	1.73	11.0	3.7
20	0.5	20 / 0.18	0.93	1.73	12.3	3.4
25	0.5	20 / 0.18	0.93	1.73	13.6	3.3
30	0.5	20 / 0.18	0.93	1.73	14.4	3.2
40	0.5	20 / 0.18	0.93	1.73	16.1	2.8
50	0.5	20 / 0.18	0.93	1.73	18.3	2.1

Core Type 0.75 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	30/0.18	1.14	1.94	6.4	9.6
3	0.75	30/0.18	1.14	1.94	6.8	8.4
4	0.75	30/0.18	1.14	1.94	7.3	6.7
5	0.75	30/0.18	1.14	1.94	7.9	6.4
6	0.75	30/0.18	1.14	1.94	8.5	5.9
7	0.75	30/0.18	1.14	1.94	8.5	5.6
8	0.75	30/0.18	1.14	1.94	9.2	5.4
9	0.75	30/0.18	1.14	1.94	9.8	5.3
10	0.75	30/0.18	1.14	1.94	10.6	5.2
12	0.75	30/0.18	1.14	1.94	10.9	5.0
15	0.75	30/0.18	1.14	1.94	12.2	4.9
20	0.75	30/0.18	1.14	1.94	13.5	4.6
25	0.75	30/0.18	1.14	1.94	15.0	4.4
30	0.75	30/0.18	1.14	1.94	15.9	4.2
40	0.75	30/0.18	1.14	1.94	17.9	3.7
50	0.75	30/0.18	1.14	1.94	20.2	2.8

COVV-SB

Shielded Core Type > 1.25 SQ / 2 SQ

Core Type 1.25 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	50 / 0.18	1.47	2.37	7.4	13.6
3	1.25	50 / 0.18	1.47	2.37	7.8	11.9
4	1.25	50 / 0.18	1.47	2.37	8.4	9.5
5	1.25	50 / 0.18	1.47	2.37	9.2	9.0
6	1.25	50 / 0.18	1.47	2.37	9.9	8.3
7	1.25	50 / 0.18	1.47	2.37	9.9	8.0
8	1.25	50 / 0.18	1.47	2.37	10.7	7.7
9	1.25	50 / 0.18	1.47	2.37	11.5	7.5
10	1.25	50 / 0.18	1.47	2.37	12.6	7.3
12	1.25	50 / 0.18	1.47	2.37	13.0	7.1
15	1.25	50 / 0.18	1.47	2.37	14.4	7.0
20	1.25	50 / 0.18	1.47	2.37	16.1	6.5
25	1.25	50 / 0.18	1.47	2.37	17.9	6.3
30	1.25	50 / 0.18	1.47	2.37	19.0	6.0
40	1.25	50 / 0.18	1.47	2.37	21.3	5.3
50	1.25	50 / 0.18	1.47	2.37	24.1	3.9

Core Type 2 SQ

Number of Cores (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	37 / 0.26	1.83	2.83	8.4	18.4
3	2	37 / 0.26	1.83	2.83	8.8	16.1
4	2	37 / 0.26	1.83	2.83	9.6	12.9
5	2	37 / 0.26	1.83	2.83	10.5	12.2
6	2	37 / 0.26	1.83	2.83	11.4	11.3
7	2	37 / 0.26	1.83	2.83	11.4	10.8
8	2	37 / 0.26	1.83	2.83	12.5	10.4
9	2	37 / 0.26	1.83	2.83	13.4	10.1
10	2	37 / 0.26	1.83	2.83	14.7	9.9
12	2	37 / 0.26	1.83	2.83	15.1	9.7
15	2	37 / 0.26	1.83	2.83	16.9	9.4
20	2	37 / 0.26	1.83	2.83	18.8	8.7
25	2	37 / 0.26	1.83	2.83	20.9	8.5
30	2	37 / 0.26	1.83	2.83	22.2	8.1
40	2	37 / 0.26	1.83	2.83	24.9	7.1
50	2	37 / 0.26	1.83	2.83	28.3	5.3

RoHS

COVV-SB

Shielded Pair Type.

Application

- Signal interconnecting or control cable between the remote controller and the control system used for numeric control machine.

Feature

- Good soldering condition due to tinned copper.
- Good flexibility by powering the core unit to reduce friction and maintain core separation.
- Specially formulated soft PVC insulation and sheath improve the life of cable.
- Excellent shielding effectiveness by tinned copper braid.

Material

- Conductor : Tinned annealed stranded copper
- Insulation : Polyvinyl Chloride (PVC)
- Sheath : Polyvinyl Chloride (PVC)

Condition

- Temperature range (Fixed) : −20℃ ~ +80℃
- Working voltage : 300V
- Test voltage : 1000V / 1min
- Insulation resistance : Min. 10㏁. ㎞
- Minimum Bending radius (Fixed) : Overall diameter X 6

COVV-SB

Shielded Pair Type > 0.2 SQ / 0.3 SQ

Pair Type 0.2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.2	7 / 0.2	0.6	1.1	6.4	2.8
3	0.2	7 / 0.2	0.6	1.1	6.7	2.5
4	0.2	7 / 0.2	0.6	1.1	7.2	2.3
5	0.2	7 / 0.2	0.6	1.1	8.0	2.2
6	0.2	7 / 0.2	0.6	1.1	8.2	2.1
7	0.2	7 / 0.2	0.6	1.1	8.2	2.1
8	0.2	7 / 0.2	0.6	1.1	8.9	2.0
9	0.2	7 / 0.2	0.6	1.1	9.4	2.0
10	0.2	7 / 0.2	0.6	1.1	10.0	1.9
12	0.2	7 / 0.2	0.6	1.1	10.3	1.9
15	0.2	7 / 0.2	0.6	1.1	11.0	1.8
20	0.2	7 / 0.2	0.6	1.1	12.0	1.6
25	0.2	7 / 0.2	0.6	1.1	13.8	1.2
30	0.2	7 / 0.2	0.6	1.1	14.6	1.2
40	0.2	7 / 0.2	0.6	1.1	16.2	1.2
50	0.2	7 / 0.2	0.6	1.1	17.9	1.2

Pair Type 0.3 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.3	12 / 0.18	0.72	1.32	7.2	3.4
3	0.3	12 / 0.18	0.72	1.32	7.6	2.9
4	0.3	12 / 0.18	0.72	1.32	8.2	2.7
5	0.3	12 / 0.18	0.72	1.32	9.1	2.6
6	0.3	12 / 0.18	0.72	1.32	9.4	2.5
7	0.3	12 / 0.18	0.72	1.32	9.4	2.5
8	0.3	12 / 0.18	0.72	1.32	10.2	2.4
9	0.3	12 / 0.18	0.72	1.32	10.8	2.3
10	0.3	12 / 0.18	0.72	1.32	11.5	2.3
12	0.3	12 / 0.18	0.72	1.32	11.9	2.2
15	0.3	12 / 0.18	0.72	1.32	12.9	2.1
20	0.3	12 / 0.18	0.72	1.32	14.0	1.9
25	0.3	12 / 0.18	0.72	1.32	16.1	1.4
30	0.3	12 / 0.18	0.72	1.32	17.1	1.4
40	0.3	12 / 0.18	0.72	1.32	19.1	1.4
50	0.3	12 / 0.18	0.72	1.32	21.0	1.4

COVV-SB

Shielded Pair Type > 0.5 SQ / 0.75 SQ

Pair Type 0.5 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.5	20 / 0.18	0.93	1.73	8.8	5.0
3	0.5	20 / 0.18	0.93	1.73	9.3	4.4
4	0.5	20 / 0.18	0.93	1.73	10.1	4.1
5	0.5	20 / 0.18	0.93	1.73	11.2	3.9
6	0.5	20 / 0.18	0.93	1.73	11.6	3.8
7	0.5	20 / 0.18	0.93	1.73	11.6	3.7
8	0.5	20 / 0.18	0.93	1.73	12.8	3.6
9	0.5	20 / 0.18	0.93	1.73	13.6	3.5
10	0.5	20 / 0.18	0.93	1.73	14.6	3.4
12	0.5	20 / 0.18	0.93	1.73	15.2	3.3
15	0.5	20 / 0.18	0.93	1.73	16.3	3.2
20	0.5	20 / 0.18	0.93	1.73	17.9	2.8
25	0.5	20 / 0.18	0.93	1.73	20.5	2.1
30	0.5	20 / 0.18	0.93	1.73	21.6	2.1
40	0.5	20 / 0.18	0.93	1.73	24.2	2.1
50	0.5	20 / 0.18	0.93	1.73	26.7	2.1

Pair Type 0.75 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	0.75	30 / 0.18	1.14	1.94	9.6	6.7
3	0.75	30 / 0.18	1.14	1.94	10.1	5.9
4	0.75	30 / 0.18	1.14	1.94	11.0	5.4
5	0.75	30 / 0.18	1.14	1.94	12.4	5.2
6	0.75	30 / 0.18	1.14	1.94	12.8	5.0
7	0.75	30 / 0.18	1.14	1.94	12.8	4.9
8	0.75	30 / 0.18	1.14	1.94	14.1	4.8
9	0.75	30 / 0.18	1.14	1.94	15.0	4.7
10	0.75	30 / 0.18	1.14	1.94	16.1	4.6
12	0.75	30 / 0.18	1.14	1.94	16.7	4.4
15	0.75	30 / 0.18	1.14	1.94	18.1	4.2
20	0.75	30 / 0.18	1.14	1.94	19.8	3.7
25	0.75	30 / 0.18	1.14	1.94	22.7	2.8
30	0.75	30 / 0.18	1.14	1.94	23.9	2.8
40	0.75	30 / 0.18	1.14	1.94	26.9	2.8
50	0.75	30 / 0.18	1.14	1.94	29.6	2.8

COVV-SB

Shielded Pair Type > 1.25 SQ / 2 SQ

Pair Type 1.25 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	1.25	50 / 0.18	1.47	2.37	11.2	9.5
3	1.25	50 / 0.18	1.47	2.37	11.9	8.3
4	1.25	50 / 0.18	1.47	2.37	13.1	7.7
5	1.25	50 / 0.18	1.47	2.37	14.8	7.3
6	1.25	50 / 0.18	1.47	2.37	15.3	7.1
7	1.25	50 / 0.18	1.47	2.37	15.3	7.0
8	1.25	50 / 0.18	1.47	2.37	16.9	6.8
9	1.25	50 / 0.18	1.47	2.37	17.9	6.6
10	1.25	50 / 0.18	1.47	2.37	19.2	6.5
12	1.25	50 / 0.18	1.47	2.37	20.0	6.3
15	1.25	50 / 0.18	1.47	2.37	21.5	6.0
20	1.25	50 / 0.18	1.47	2.37	23.6	5.3
25	1.25	50 / 0.18	1.47	2.37	27.1	3.9
30	1.25	50 / 0.18	1.47	2.37	28.7	3.9
40	1.25	50 / 0.18	1.47	2.37	32.3	3.9
50	1.25	50 / 0.18	1.47	2.37	35.6	3.9

Pair Type 2 SQ

Number of Pairs (EA)	Conductor Size (SQ)	Strands (EA / mm)	Conductor Dia. (mm)	Inner Core Dia. (mm)	Overall Dia. (mm)	Current Max. (A)
2	2	37 / 0.26	1.83	2.83	13.1	12.9
3	2	37 / 0.26	1.83	2.83	13.8	11.3
4	2	37 / 0.26	1.83	2.83	15.3	10.4
5	2	37 / 0.26	1.83	2.83	17.2	9.9
6	2	37 / 0.26	1.83	2.83	17.9	9.7
7	2	37 / 0.26	1.83	2.83	17.9	9.4
8	2	37 / 0.26	1.83	2.83	19.7	9.2
9	2	37 / 0.26	1.83	2.83	20.9	9.0
10	2	37 / 0.26	1.83	2.83	22.4	8.7
12	2	37 / 0.26	1.83	2.83	23.4	8.5
15	2	37 / 0.26	1.83	2.83	25.2	8.1
20	2	37 / 0.26	1.83	2.83	27.6	7.1
25	2	37 / 0.26	1.83	2.83	31.9	5.3
30	2	37 / 0.26	1.83	2.83	33.7	5.3
40	2	37 / 0.26	1.83	2.83	38.0	5.3
50	2	37 / 0.26	1.83	2.83	42.0	5.3

Find out what LS Factory Automation Cable can do to your FA system.

Network Cable

DBEV-IAMESB

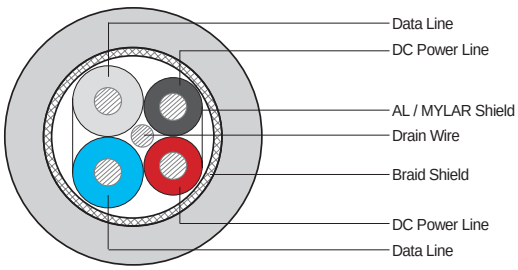
Network Cable > ODVA DeviceNet™ Cable thin, Thick type

RoHS UL

Application

- Connections between industrial devices and higher-level devices (controllers etc.).
- Device NET applications.

Feature



Transmission length

Data Rate (Kbaud)	Thick type	Thin type		
	Max. Trunk length	Max. Trunk length	Drop Length	
			Max.	Cumulative
125	500M	100M	6M	156M
250	250M	100M		78M
20	100M	100M		39M

Construction

Cable name	Size	Overall diameter (mm)	Characteristics Impedance	Insulation Resistance (MΩ, km)	Conductor resistance (Ω /km)
Thin (DBEV-IAMESB)	1P X 22AWG +1P X 24AWG	6.8	120Ω ± 10%	Min. 10,000 (24AWG) Min. 100 (22AWG)	Max. 91.8 (24AWG) Max. 57.4 (22AWG)
Thick (DBEV-IAMESB)	1P X 15AWG +1P X 18AWG	11.5		Min. 10,000 (18AWG) Min. 100 (15AWG)	Max. 22.6 (18AWG) Max. 11.8 (15AWG)
	1P X 14AWG +1P X 18AWG	12.0		Min. 10,000 (18AWG) Min. 100 (14AWG)	Max. 22.6 (18AWG) Max. 11.8 (14AWG)

PLFEV-AMESB, ROPLEV-ESB

Network Cable > CLPA Certified CC-Link Cable Ver. 1.10

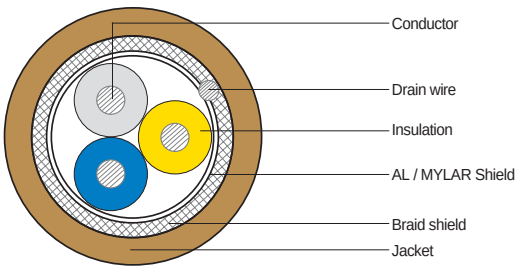
RoHS

Application

- Standard CC-Link Cable for high speed data transmission.

Feature

- These cables correspond to 10Mbps transmission.
- Variations are prepared to match various use environment.
- Excellent shield effectiveness with double shielded.
- For fixed use - PLFEV - AMESB type.
- For Movable use - ROPLEV - ESB type.



Electrical character is tics

Item	Values
Conductor resistance	Max. 37.8 Ω / km
Insulation resistance	Min. 10000 MΩ. km
Characteristics impedance	110 ± 15Ω
Capacitance	Max. 60 pF/m
Attenuation	Max. 1.6dB / 100m @1MHz
	Max. 3.5dB / 100m @5MHz

Construction

Item	Cable name	Size	Standard colors	Overall diameter (mm)
For fixed	PLFEV - AMESB	3CX20AWG	Brown	7.7
For Movable	ROPLEV - ESB			8.0

NEW!
Halogen Free

ROTPEU, ROTPEU-SB

Application

Signal interconnecting or power supply cable used for high speed cable chain of manufacturing automatic machine or internal or external wiring of industrial robot system.

Feature

RoHS CE UL SA

- Good soldering condition due to tinned copper.
- Excellent flexibility by the use of fine wire copper strands.
- Thermoplastic elastomer insulation minimize the friction between cores.
- Superior resistance to flame retardant, oil, abrasion, chemical by polyurethane sheath.
- Excellent shielding effectiveness by tinned copper braid.
- All sizes are available.
- Clean room cable is available. (ISO 14644-1 Air Cleanliness Class 1, US Fed std. 209E Air Cleanliness Class 1)

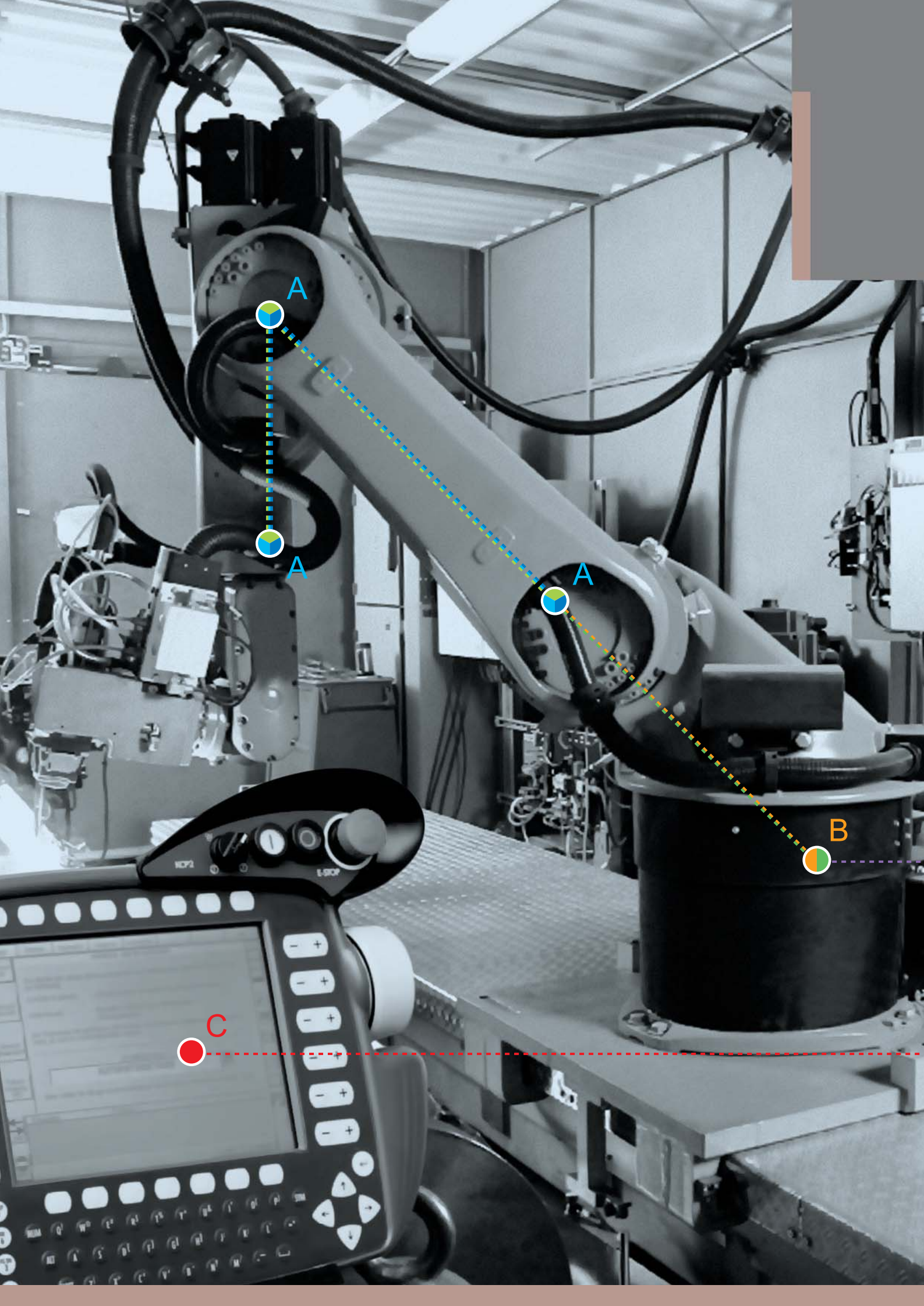
Material

- Conductor : Tinned annealed stranded copper or bare copper stranded
- Insulation : Halogen free Thermoplastic elastomer compound (TPE)
- Shield : Tinned annealed copper braid or Tinsel copper braid
- Sheath : Halogen free thermoplastic urethane (TPU) (Alternative: excellent low particle TPU material)

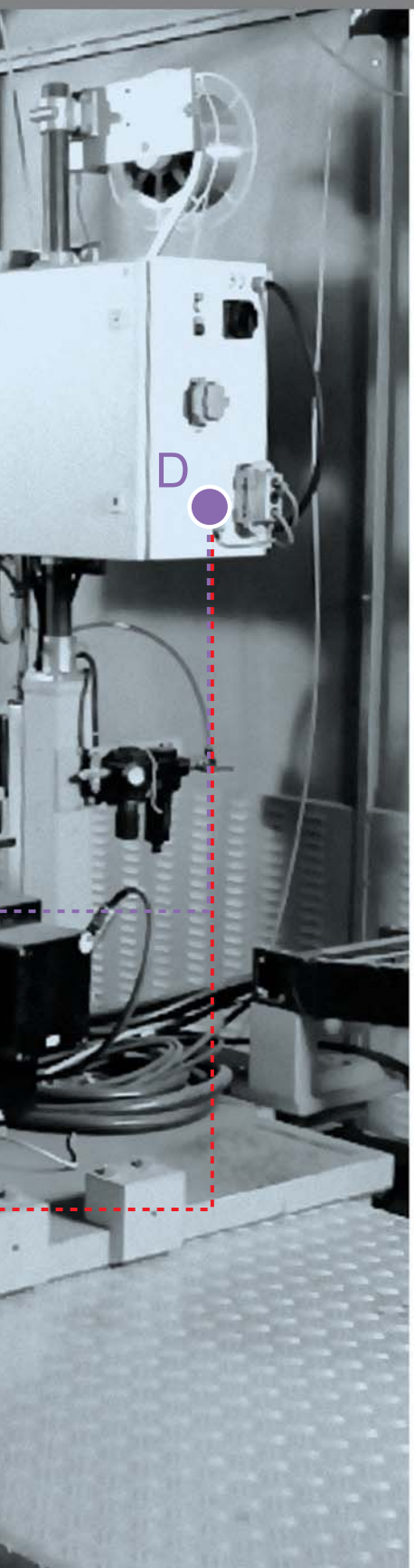
Condition

- Temperature range : Flexing –30℃ ~ +90℃ / Fixed –50℃ ~ +105℃
- Working voltage : 450V / 750V
- Test voltage : 2000V / 1min
- Insulation resistance : Min. 1000 MΩ. km
- Minimum Bending radius : Overall diameter X 5 (Non-shielded type) / Overall diameter X 7.5 (Shielded type)

Technical Data


A
A
A
B
C

Find out what LS Factory Automation Cable can do to your FA system.



Cable Application

A : ROFHV(-SB), ROFHU(-SB), ROFHVU(-SB)

B : ROIREV(-SB), ROIREU(-SB)

C : ROVV(-SB)

D : COVV(-SB)

Technical Data

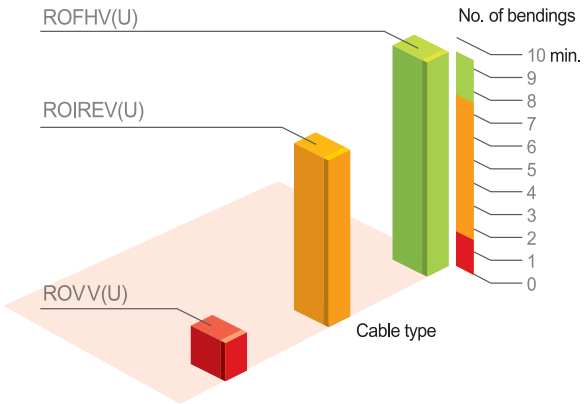
90° Left & Right Bending Test / U-Bending Test

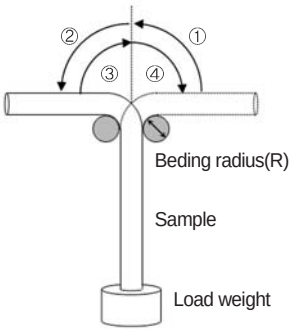
90° Left & Right Bending Test

Test Parameter

- Cycle : ① → ② → ③ → ④
- Speed : 40 Cycle / min
- Load Weght : 500g
- Bending radius(R) : Cable diameter x 10

UNIT : Million Cycle

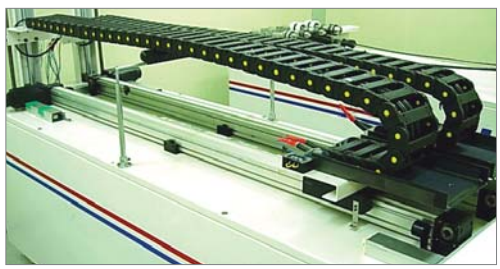




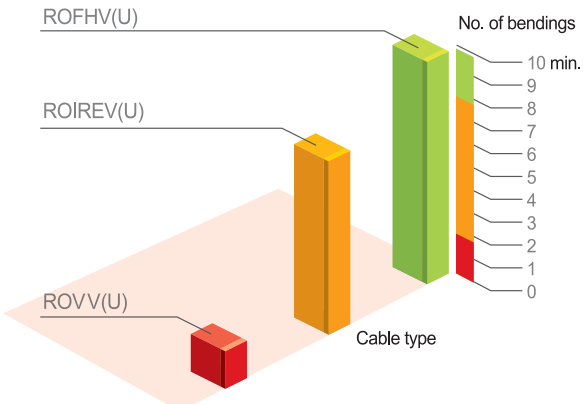
U-Bending Test

Test Parameter

- Bending radius(R) : Cable diameter x 6
- No. of Bedings : 60 Cycle / min
- Speed : 2.0 m/s
- Acceleration : 2G (20m/s^2)
- Stroke length : 1500mm



UNIT : Million Cycle



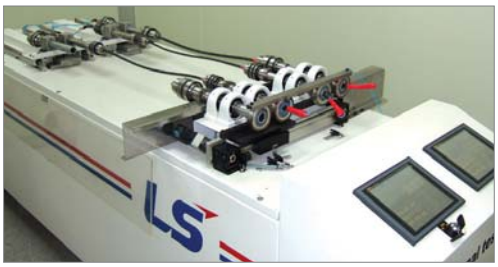
Technical Data

Torsion Test / U-Bending & Torsion Test

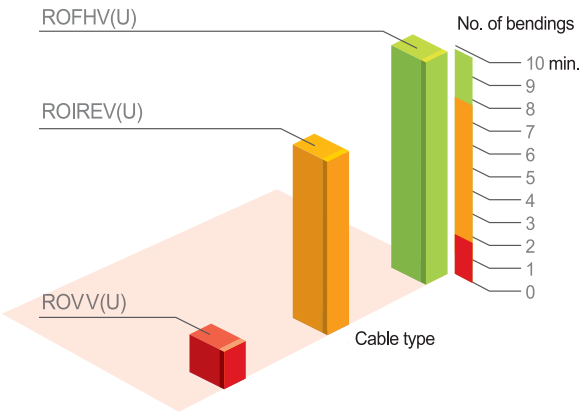
Torsion Test

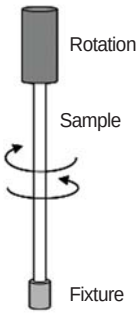
Test Parameter

- Speed : 60 Cycle / min
- Torsion angle : ±360°
- Length : 1,000mm
- Load Weight : 250g



UNIT : Million Cycle

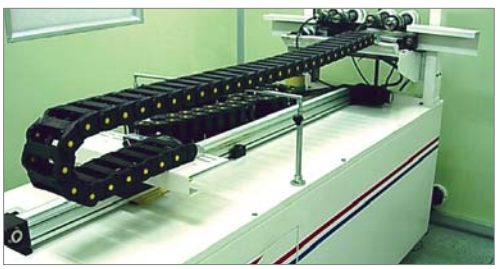




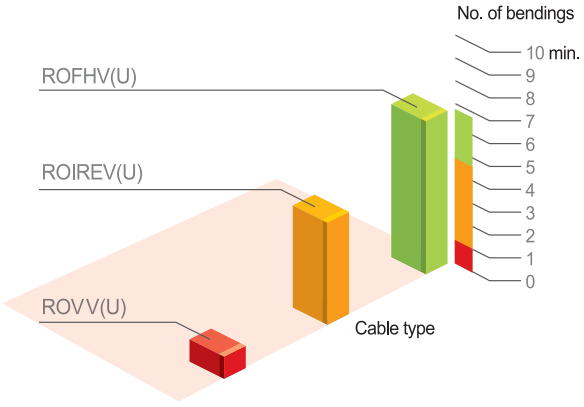
U-Bending & Torsion Test

Test Parameter

- Torsion speed : 600 Cycle / min
- Torsion angle : ±180°
- U bending speed : 2.0 m/s
- Bending radius(R) : Cable diameter x 6
- Cable length : 1,000mm



UNIT : Million Cycle



Technical Data

Color code (Core type)

Color Code Type C-1

Number	Color
1	Black
2	White
3	Red
4	Green
5	Blue
6	Orange
7	Yellow
8	Violet
9	Brown
10	Grey
11	Skyblue
12	Pink

* Applicable cable type : ROVV(U), ROIREV(U), ROFHV(U), COVV(R)

Color Code Type C-2

Number	Assembly Layer			
	First Layer	Second Layer	Third Layer	Fourth Layer
1	Black	Black	Black	Black
2	White	White	White	White
3	Red	Red	Red	Red
4	Green	Green	Green	Green
5	Blue	Blue	Blue	Blue
6	Orange	Orange	Orange	Orange
7	Yellow	Yellow	Yellow	Yellow
8	Violet	Violet	Violet	Violet
9	Brown	Brown	Brown	Brown
10	Grey	Grey	Grey	Grey
11		Pink	Pink	Pink
12		Skyblue	Skyblue	Skyblue
13		Blue	Blue	Blue
14			Orange	Orange
15			Yellow	Yellow
16			Violet	Violet
17			Brown	Brown
18			Grey	Grey
19			Pink	Pink
20				Skyblue

* Applicable cable type : ROIREV(U), ROFHV(U)

Technical Data

Color code (Core type)

Color Code Type C-3

Number	Dot mark	Base color	Dot color	Number	Dot mark	Base color	Dot color
1	A	White	Black	26	C	White	Red
2	A	Yellow	Red	27	C	Yellow	Black
3	A	Pink	Black	28	C	Pink	Red
4	A	Skyblue	Red	29	C	Skyblue	Black
5	A	Grey	Black	30	C	Grey	Red
6	A	White	Red	31	D	White	Black
7	A	Yellow	Black	32	D	Yellow	Red
8	A	Pink	Red	33	D	Pink	Black
9	A	Skyblue	Black	34	D	Skyblue	Red
10	A	Grey	Red	35	D	Grey	Black
11	B	White	Black	36	D	White	Red
12	B	Yellow	Red	37	D	Yellow	Black
13	B	Pink	Black	38	D	Pink	Red
14	B	Skyblue	Red	39	D	Skyblue	Black
15	B	Grey	Black	40	D	Grey	Red
16	B	White	Red	41	E	White	Black
17	B	Yellow	Black	42	E	Yellow	Red
18	B	Pink	Red	43	E	Pink	Black
19	B	Skyblue	Black	44	E	Skyblue	Red
20	B	Grey	Red	45	E	Grey	Black
21	C	White	Black	46	E	White	Red
22	C	Yellow	Red	47	E	Yellow	Black
23	C	Pink	Black	48	E	Pink	Red
24	C	Skyblue	Red	49	E	Skyblue	Black
25	C	Grey	Black	50	E	Grey	Red

Dot mark A

Dot mark B

Dot mark C

Dot mark D

Dot mark E

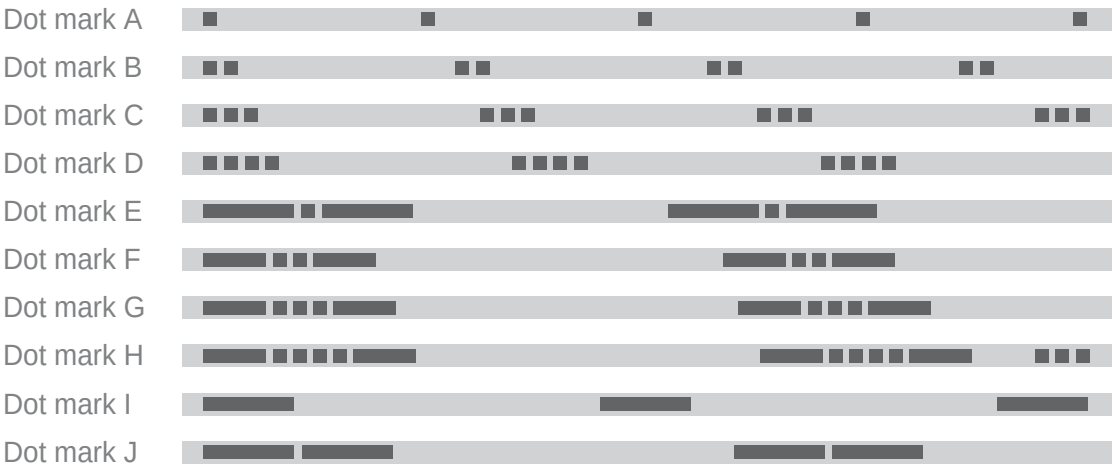
* Applicable cable type : ROVV(U), ROIREV(U), COVV(U)

Technical Data

Color code (Pair type)

Color Code Type P-1

No. of Pair	Base color	Dot marking	Dot marking color		No. of Pair	Base color	Dot marking	Dot marking color	
			1'st core	2'st core				1'st core	2'st core
1	Orange	A	Black	Red	26	Orange	F	Black	Red
2	Gray		Black	Red	27	Gray		Black	Red
3	White		Black	Red	28	White		Black	Red
4	Yellow		Black	Red	29	Yellow		Black	Red
5	Pink		Black	Red	30	Pink		Black	Red
6	Orange	B	Black	Red	31	Orange	G	Black	Red
7	Gray		Black	Red	32	Gray		Black	Red
8	White		Black	Red	33	White		Black	Red
9	Yellow		Black	Red	34	Yellow		Black	Red
10	Pink		Black	Red	35	Pink		Black	Red
11	Orange	C	Black	Red	36	Orange	H	Black	Red
12	Gray		Black	Red	37	Gray		Black	Red
13	White		Black	Red	38	White		Black	Red
14	Yellow		Black	Red	39	Yellow		Black	Red
15	Pink		Black	Red	40	Pink		Black	Red
16	Orange	D	Black	Red	41	Orange	I	Black	Red
17	Gray		Black	Red	42	Gray		Black	Red
18	White		Black	Red	43	White		Black	Red
19	Yellow		Black	Red	44	Yellow		Black	Red
20	Pink		Black	Red	45	Pink		Black	Red
21	Orange	E	Black	Red	46	Orange	J	Black	Red
22	Gray		Black	Red	47	Gray		Black	Red
23	White		Black	Red	48	White		Black	Red
24	Yellow		Black	Red	49	Yellow		Black	Red
25	Pink		Black	Red	50	Pink		Black	Red



* Applicable cable type : ROVV(U), ROIREV(U), COVV(U)

Technical Data

Color code (Pair type)

Color Code Type P-2

Nomber	Color	Nomber	Color
1	Black-White	26	Green-Orange
2	Black-Red	27	Green-Yellow
3	Black-Green	28	Green-Violet
4	Black-Blue.	29	Green-Brown.
5	Black-Orange	30	Green-Grey
6	Black-Yellow	31	Blue-Orange.
7	Black-Violet	32	Blue-Yellow
8	Black-Brown	33	Blue-Violet
9	Black-Grey.	34	Blue-Brown.
10	White-Red	35	Blue-Grey
11	White-Green	36	Orange-Yellow.
12	White-Blue.	37	Orange-Violet.
13	White-Orange	38	Orange-Brown
14	White-Yellow	39	Orange-Grey.
15	White-Violet	40	Yellow-Violet
16	White-Brown	41	Yellow-Brown
17	White-Grey	42	Yellow-Grey
18	Red-Green	43	Violet-Brown
19	Red-Blue	44	Violet-Grey
20	Red-Orange	45	Brown-Grey
21	Red-Yellow.	46	
22	Red-Violet.	47	
23	Red-Brown	48	
24	Red-Grey	49	
25	Green-Blue..	50	

* Applicable cable type : ROVV(U), ROIREV(U), ROFHV(U), COVV(U)

Color Code Type P-3

Nomber	Color	Nomber	Color
1	Black-White	26	Red-Violet.
2	Black-Red	27	Red-Brown
3	Black-Green	28	Red-Grey
4	Black-Blue.	29	Red-Pink
5	Black-Orange	30	Red-Skyblue
6	Black-Yellow	31	Green-Blue..
7	Black-Violet	32	Green-Orange
8	Black-Brown	33	Green-Yellow
9	Black-Grey.	34	Green-Violet
10	Black-Pink..	35	Green-Brown.
11	Black-Skyblue	36	Green-Grey
12	White-Red	37	Green-Pink
13	White-Green	38	Green-Skyblue.
14	White-Blue.	39	Blue-Orange.
15	White-Orange	40	Blue-Yellow
16	White-Yellow	41	Blue-Violet
17	White-Violet	42	Blue-Brown..
18	White-Brown	43	Blue-Grey
19	White-Grey	44	Blue-Pink
20	White-Pink	45	Blue-Skyblue
21	White-Skyblue	46	Orange-Yellow.
22	Red-Green	47	Orange-Violet..
23	Red-Blue	48	Orange-Brown
24	Red-Orange	49	Orange-Grey.
25	Red-Yellow.	50	Orange-Pink.

* Applicable cable type : ROVV(U), ROIREV(U), ROFHV(U), COVV(U)

Technical Data

Allowable Current Calculation Formulations

1. Allowable Current Calculation Formulae

$$I = K\sqrt{\frac{T_C - T_A}{\gamma \cdot Rth}}$$

$$\gamma = \gamma_0 \{1 + (T_C - 20)\}$$

$$Rth = R_1 + R_2$$

$$R_1 = \frac{P_1}{2\pi} \log_e \frac{d_2}{d_1}$$

$$R_2 = \frac{10P_1}{\pi d_2}$$

I : Allowable current (A)
γ : Effective resistance of conductor at Tc of wire (Ω/ cm)
Rth : Total thermal resistance (℃cm / w)
T_C : Maximum allowable temperature of conductor (℃)
T_A : Ambient temperature (℃)
K : Diminution rate for multi-wire installations
γ_0 : Effective wire resistance at 20℃ (Ω / cm)
α : Conductor resistance temperature coefficient
Copper 0.00393 Aluminum 0.0040
R_1 : Thermal resistance of insulation (℃ cm / w)
R_2 : Wire surface radiation thermal resistance (℃cm / w)
P_1 : Specific thermal resistance of insulation (℃cm / w)
P_2 : Surface radiation specific thermal resistance (℃cm / w)
d_1 : Outer diameter of conductor (mm)
d_2 : Surface radiation specific thermal resistance (mm)

Table 1. Specific thermal resistance of P_1 insulation

Material	P_1 (℃ • cm/W)
PVC	600
Cross-linked PVC	600
Polyethylene	450
Cross-linked Polyethylene	450
Silicone Rubber	500
Ethylene Propylene Rubber	500
Chloroprene Rubber	500
Teflon (PTFE)	450
Teflon (FEP)	400
E T F E	1,200
Vinylidene Fluoride	1,200

Table 2. Maximum Allowable Temperature

Material	Tc (℃)
PVC	60
Heat-resistant PVC	75, 80, 90, 105
Cross-linked PVC	105
Polyethylene	75
Cross-linked Polyethylene	90, 105, 125
T F E	250
F E P	200
E T F E	150
Vinylidene fluoride	105
Silicone Rubber	180
Ethylene Propylene Rubber	90

P_2 surface radiation thermal resistance

Material	P_1 (℃ • cm/W)
Materials in the above table	$500 + 10d_2$ ($d_2 \leq 40$)
Impregnated braiding	$400 + 20d_2$ ($d_2 \leq 20$)

Technical Data

Allowable Current Calculation Formulations

2. Diminution Rate (K)

Allowable current diminution rate for tightly bundled and coiled wires : (K)

Table 3.

No. of Wires	K
1	1.00
2	0.75
3	0.65
4	0.58
5	0.53
6	0.49
7	0.46
8	0.43
9	0.41
10	0.40
11 - 15	0.34
16 - 20	0.30
21 - 30	0.25
31 - 40	0.22
41 - 50	0.20
51 - 60	0.18
61 - 70	0.17
71 - 100	0.16

Allowable current diminution rate for cable tray without spacing

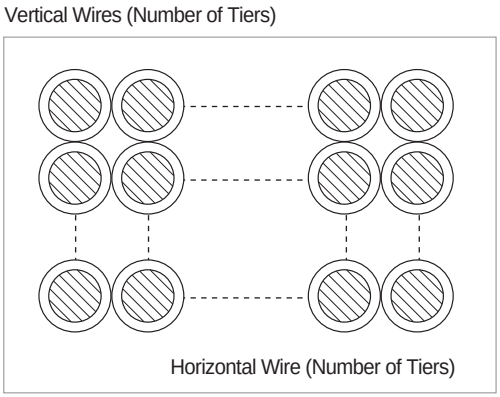


Table 4.

No. of Horizon-tal Wires / No. of Vertical Wires		Number of Rows									
		1	2	3	4	5	6	7	8	9	10
Number of Tiers	1	1.00	0.80	0.70	0.65	0.62	0.60	0.58	0.57	0.56	0.55
	2	0.70	0.56	0.49	0.45	0.43	0.42	0.41	0.40	0.39	0.38
	3	0.66	0.53	0.46	0.43	0.41	0.40	0.38	0.37	0.36	0.35
	4	0.58	0.46	0.41	0.38	0.36	0.35	0.34	0.33	0.32	0.31
	5	0.45	0.36	0.32	0.29	0.28	0.27	0.26	0.25	0.24	0.23

Technical Data

Allowable Current Calculation Formulations

Table 5 : Allowable Current for TEW Wire

Conductor			Allowable Current								
Size (AWG)	Nominal Cross-sectional Area(mm^2)	Construction (No./mm)	Conductor Temperature 60°C	Conductor Temperature 75°C	Conductor Temperature 80°C	Conductor Temperature 90°C	Conductor Temperature 105°C	Conductor Temperature 125°C	Conductor Temperature 150°C	Conductor Temperature 200°C	Conductor Temperature 260°C
30	-	1/0.26	1	1	2	2	2	2	2	3	3
28	-	1/0.32	1	2	2	3	3	3	3	4	4
26	-	1/0.40	2	3	3	4	4	4	4	5	6
24	-	1/0.50	3	4	4	5	5	6	6	7	8
22	-	1/0.65	5	6	6	7	8	8	8	10	12
20	-	1/0.80	6	7	8	9	10	11	11	14	15
18	-	1/1.0	9	10	11	12	14	15	16	19	22
16	-	1/1.2	11	13	15	16	17	19	22	26	31
15	-	1/1.4	14	16	18	19	21	23	26	32	38
14	-	1/1.6	17	20	22	24	27	28	30	36	42
30	0.05	7/0.1	1	1	2	2	2	2	2	3	3
28	0.08	7/0.12	1	2	2	3	3	3	3	4	4
26	0.14	7/0.16	2	3	3	4	4	5	5	6	6
-	0.18	7/0.18	3	4	4	5	5	5	6	7	8
24	0.20	7/0.20	3	5	5	6	6	6	8	9	10
22	0.3	12/0.18	4	5	6	7	8	8	9	10	11
20	0.5	19/0.18	7	7	8	9	10	11	11	14	15
-	0.75	30/0.18	9	10	11	12	14	15	16	20	22
18	0.9	37/0.18	10	11	13	14	16	17	19	23	26
16	1.25	50/0.18	12	14	16	17	19	21	22	27	30
14	2	37/0.26	17	20	23	24	27	28	30	37	41
-	3.5	45/0.32	23	27	32	33	35	44	45	56	62
-	5.5	70/0.32	32	38	44	45	48	59	62	77	86

Table 6 : Temperatures are the sane as Table 5

Current Correction Factor at Ambient Temperature	30°C	1.22	1.13	1.11	1.09	1.07	1.05	1.04	1.03	1.02
	40°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	50°C	0.70	0.84	0.86	0.89	0.91	0.93	0.95	0.96	0.97
	60°C	-	0.65	0.70	0.77	0.83	0.87	0.90	0.93	0.95
	70°C	-	0.37	0.50	0.63	0.73	0.80	0.85	0.90	0.92
	80°C	-	-	-	0.44	0.62	0.72	0.79	0.86	0.90
	90°C	-	-	-	-	0.48	0.64	0.73	0.82	0.87
	100°C	-	-	-	-	0.27	0.54	0.57	0.79	0.85
	125°C	-	-	-	-	-	-	0.47	0.68	0.78
	150°C	-	-	-	-	-	-	-	0.55	0.70
	200°C	-	-	-	-	-	-	-	-	0.52
	Current Correction Factor Calculation Formula	$\sqrt{\frac{60-TA}{20}}$	$\sqrt{\frac{75-TA}{35}}$	$\sqrt{\frac{80-TA}{40}}$	$\sqrt{\frac{90-TA}{50}}$	$\sqrt{\frac{105-TA}{65}}$	$\sqrt{\frac{125-TA}{85}}$	$\sqrt{\frac{150-TA}{110}}$	$\sqrt{\frac{200-TA}{160}}$	$\sqrt{\frac{260-TA}{220}}$

Technical Data

AWG ↔ mm Conversion Table of Wire Gauges

The Following tables compare the main wire gauges used around the world. B.W.G. is an abbreviation for Birmingham (Stub's) Iron Wire Gauge A.W.G. stands for American Wire Gauge (also called Brown & Sharpe Wire Gauge). S.W.G. is abbreviation for British Standard Wire Gauge. "mm.G." represents the millimetric gauge selected by the Wire Standard Survey Subcommittee of the Japan Electric Industrial Committee in November 1921.

Gauge				Diameter		Cross-sectional Area			Copper Wire Weight (kg/km)
B.W.G.	A.W.G.	S.W.G.	mm.G.	(mil)	(mm)	(CM)	(sq.in)	(mm^2)	
5/0	···	7/0	···	500.0	12.70	250,000	.1964	126.7	1,126
···	···	···	12	472.4	12.00	223,162	.1753	113.1	1,005
···	···	6/0	···	464.0	11.79	215,296	.1691	109.1	969.0
···	4/0	···	···	460.0	11.68	211,600	.1662	107.2	953.0
4/0	···	···	···	454.0	11.53	206,100	.1619	104.4	928.1
···	···	5/0	···	432.0	10.97	186,624	.1466	94.56	840.6
3/0	···	···	···	425.0	10.80	180,600	.1419	91.52	813.6
···	3/0	···	···	409.6	10.40	167,772	.1318	85.03	755.9
···	···	4/0	···	400.0	10.16	160,000	.1257	81.07	720.7
···	···	···	10	393.7	10.00	155,000	.1217	78.54	698.2
2/0	···	···	···	380.0	9.652	144,400	.1134	73.17	650.5
···	···	3/0	···	372.0	9.449	138,384	.1087	70.12	623.4
···	2/0	···	···	364.8	9.266	133,079	.1045	67.42	599.4
···	···	···	9	354.3	9.000	125,528	.09859	63.62	565.6
···	···	2/0	···	348.0	8.839	121,104	.09512	61.36	545.5
0	···	···	···	340.0	8.636	115,600	.09079	58.58	520.8
···	0	···	···	324.9	8.254	105,560	.08291	53.49	475.5
···	···	0	···	324.0	8.230	104,976	.08245	53.19	472.8
···	···	···	8	315.0	8.000	99,225	.07793	50.27	446.9
1	···	1	···	300.0	7.620	90,000	.07069	45.60	405.4
···	1	···	···	289.3	7.343	83,694	.06573	42.41	377.0
2	···	···	···	284.0	7.214	80,660	.06335	40.87	363.0
···	···	2	···	276.0	7.010	76,176	.05983	38.60	343.0
···	···	···	7	275.6	7.000	75,955	.05966	38.48	342.1
3	···	···	···	259.0	6.579	67,080	.05269	33.99	302.0
···	2	···	···	257.6	6.544	66,358	.05212	33.63	299.0
···	···	···	6.5	255.9	6.500	65,485	.05143	33.18	295.0
···	···	3	···	252.0	6.401	63,504	.04988	32.18	286.1
4	···	···	···	238.0	6.045	56,640	.04449	28.70	255.1
···	···	···	6.0	236.2	6.000	55,790	.04382	28.27	251.2
···	···	4	···	232.0	5.893	53,824	.04227	27.27	242.4
···	3	···	···	229.4	5.827	52,624	.04133	26.66	237.0
5	···	···	···	220.0	5.588	48,400	.03801	24.52	218.0
···	···	···	5.5	216.5	5.500	46,872	.03681	23.72	210.9
···	···	5	···	212.0	5.385	44,944	.03530	22.77	202.4
···	4	···	···	204.3	5.189	41,738	.03278	21.15	188.0
6	···	···	···	203.0	5.156	41,210	.03237	20.88	185.6
···	···	···	5.0	196.9	5.000	38,770	.03045	19.63	174.5
···	···	6	···	192.0	4.877	36,864	.02895	18.68	166.2
···	5	···	···	181.9	4.621	33,088	.02599	16.77	149.1
7	···	···	···	180.0	4.572	32,400	.02545	16.42	146.0
···	···	···	4.5	177.2	4.500	31,400	.02466	15.90	141.4
···	···	7	···	176.0	4.470	30,976	.02433	15.70	139.6
8	···	···	···	165.0	4.191	27,220	.02138	13.80	122.7
···	6	···	···	162.0	4.115	26,244	.02061	13.30	118.2
···	···	8	···	160.0	4.064	25,600	.02011	12.97	115.3
···	···	···	4.0	157.5	4.000	24,806	.01948	12.57	111.8
9	···	···	···	148.0	3.759	21,900	.01720	11.10	98.68
···	7	···	···	144.3	3.665	20,822	.01635	10.55	93.79
···	···	9	···	144.0	3.658	20,736	.01620	10.52	93.52
···	···	···	3.5	137.8	3.500	18,989	.01491	9.621	85.53
10	···	···	···	134.0	3.404	17,920	.01410	9.098	80.88
···	8	···	···	128.5	3.264	16,512	.01297	8.368	74.39
···	···	10	···	128.0	3.251	16,384	.01287	8.302	73.81
···	···	···	3.2	126.0	3.200	15,876	.01247	8.042	71.49
11	···	···	···	120.0	3.048	14,400	.01131	7.297	64.87
···	···	11	···	116.0	2.946	13,456	.01057	6.818	60.61
···	9	···	···	114.4	2.906	13,087	.01028	6.632	58.96
···	···	···	2.9	114.2	2.900	13,042	.01024	6.605	58.72
12	···	···	···	109.0	2.769	11,880	.009331	6.020	53.52

Technical Data

AWG ↔ mm Conversion Table of Wire Gauges

Gauge				Diameter		Cross-sectional Area			Copper Wire Weight (kg/km)
B.W.G.	A.W.G.	S.W.G.	mm.G.	(mil)	(mm)	(CM)	(sq.in)	(mm^2)	
···	···	12	···	104.0	2.642	10,816	.008495	5.481	48.73
···	···	···	2.6	102.4	2.600	10,486	.008246	5.309	47.29
···	10	···	···	101.9	2.588	10,384	.008156	5.262	46.78
13	···	···	···	95.00	2.413	9,025	.007088	4.573	40.65
···	···	13	···	92.00	2.337	8,464	.006648	4.289	38.13
···	11	···	···	90.74	2.305	8,234	.006467	4.172	37.09
···	···	···	2.3	90.55	2.300	8,199	.006439	4.155	36.94
14	···	···	···	83.00	2.108	6,889	.005411	3.491	31.04
···	12	···	···	80.81	2.053	6,530	.005129	3.309	29.42
···	···	14	···	80.00	2.032	6,400	.005027	3.243	28.83
···	···	···	2.0	78.74	2.000	6,200	.004869	3.142	27.93
15	···	15	···	72.00	1.829	5,184	.004072	2.627	23.35
···	13	···	···	71.96	1.828	5,178	.004067	2.625	23.33
···	···	···	1.8	70.87	1.800	5,023	.003945	2.545	22.63
16	···	···	···	65.00	1.651	4,225	.003318	2.141	19.03
···	14	···	···	64.08	1.628	4,106	.003225	2.081	18.50
···	···	16	···	64.00	1.626	4,096	.003217	2.075	18.45
···	···	···	1.6	62.99	1.600	3,968	.003116	2.011	17.88
17	···	···	···	58.00	1.473	3,364	.002642	1.705	15.16
···	15	···	···	57.07	1.450	3,257	.002558	1.650	14.67
···	···	17	···	56.00	1.422	3,136	.002463	1.589	14.13
···	···	···	14	55.12	1.400	3,038	.002386	1.539	13.68
···	16	···	···	50.82	1.291	2,583	.002029	1.309	11.64
18	···	···	···	49.00	1.245	2,401	.001886	1.217	10.82
···	···	18	···	48.00	1.219	2,304	.001810	1.167	10.38
···	···	···	1.2	47.24	1.200	2,232	.001753	1.131	10.06
···	17	···	···	45.26	1.150	2,048	.001608	1.037	9.219
19	···	···	···	42.00	1.067	1,764	.001385	0.8938	7.946
···	18	···	···	40.30	1.024	1,624	.001275	0.8226	7.313
···	···	19	···	40.00	1.016	1,600	.001257	0.8107	7.207
···	···	···	1.0	39.37	1.000	1,550	.001217	0.7854	6.982
···	···	20	···	36.00	0.9144	1,296	.001018	0.6567	5.836
···	19	···	···	35.89	0.9116	1,288	.001012	0.6529	5.804
···	···	···	0.90	35.43	0.9000	1,255	.0009857	0.6362	5.656
20	···	···	···	35.00	0.8890	1,225	.0009621	0.6207	5.518
21	···	21	···	32.00	0.8128	1,024	.0008042	0.5189	4.613
···	20	···	···	31.96	0.8118	1,021	.0008019	0.5174	4.600
···	···	···	0.80	31.50	0.8000	992.3	.0007794	0.5027	4.469
···	21	···	···	28.46	0.7229	810.0	.0006362	0.4105	3.649
22	···	22	···	28.00	0.7112	784.0	.0006158	0.3973	3.532
···	···	···	0.70	27.56	0.7000	759.6	.0005966	0.3848	3.421
···	···	···	0.65	25.59	0.6500	654.8	.0005143	0.3318	2.950
···	22	···	···	25.35	0.6438	642.6	.0005047	0.3256	2.895
23	···	···	···	25.00	0.6350	625.0	.0004909	0.3167	2.816
···	···	23	···	24.00	0.6096	576.0	.0004524	0.2919	2.595
···	···	···	0.60	23.62	0.6000	557.9	.0004382	0.2827	2.513
···	23	···	···	22.57	0.5733	509.4	.0004001	0.2581	2.295
24	···	24	···	22.00	0.5588	484.0	.0003801	0.2452	2.180
···	···	···	0.55	21.65	0.5500	468.7	.0003681	0.2376	2.112
···	24	···	···	20.10	0.5106	404.0	.0003173	0.2047	1.820
25	···	25	···	20.00	0.5080	400.0	.0003142	0.2027	1.802
···	···	···	0.50	19.69	0.5000	387.7	.0003045	0.1963	1.745
26	···	26	···	18.00	0.4572	324.0	.0002545	0.1642	1.460
···	25	···	···	17.90	0.4547	320.4	.0002516	0.1623	1.443
···	···	···	0.45	17.72	0.4500	314.0	.0002466	0.1590	1.414
···	···	27	···	16.40	0.4166	269.0	.0002113	0.1363	1.212
27	···	···	···	16.00	0.4064	256.0	.0002011	0.1297	1.153
···	26	···	···	15.94	0.4049	254.1	.0001996	0.1288	1.145
···	···	···	0.40	15.75	0.4000	248.1	.0001949	0.1257	1.118
···	···	28	···	14.80	0.3759	219.0	.0001720	0.1110	0.9868
···	27	···	···	14.20	0.3606	201.6	.0001583	0.1021	0.9077
28	···	···	···	14.00	0.3556	196.0	.0001539	0.09932	0.8830
···	···	···	0.35	13.78	0.3500	189.9	.0001491	0.09621	0.8553
···	···	29	···	13.06	0.3454	185.0	.0001453	0.09372	0.8332
29	···	···	···	13.00	0.3302	169.0	.0001327	0.08563	0.7613
···	28	···	···	12.64	0.3211	159.8	.0001255	0.08097	0.7198
···	···	···	0.32	12.60	0.3200	158.8	.0001247	0.08042	0.7149
···	···	30	···	12.40	0.3150	153.8	.0001208	0.07791	0.6926
30	···	···	···	12.00	0.3048	144.0	.0001131	0.07297	0.6487
···	···	31	···	11.60	0.2946	134.6	.0001057	0.06818	0.6061

Technical Data

AWG ↔ mm Conversion Table of Wire Gauges

Gauge				Diameter		Cross-sectional Area			Copper Wire Weight (kg/km)
B.W.G.	A.W.G.	S.W.G.	mm.G.	(mil)	(mm)	(CM)	(sq.in)	(mm^2)	
···	···	···	0.29	11.42	0.2900	130.4	.0001024	0.06605	0.5872
···	29	···	···	11.26	0.2859	126.8	.00009959	0.06425	0.5712
···	···	32	···	10.80	0.2743	116.6	.00009158	0.05913	0.5257
···	···	···	0.26	10.24	0.2600	104.9	.00008239	0.05309	0.4720
···	30	···	···	10.03	0.2546	100.6	.00007901	0.05097	0.4531
31	···	33	···	10.000	0.2540	100.0	.00007854	0.05067	0.4505
···	···	34	···	9.200	0.2337	84.64	.00006648	0.04289	0.3813
···	···	···	0.23	9.055	0.2300	81.99	.00006640	0.04155	0.3694
32	···	···	···	9.000	0.2286	81.02	.00006362	0.04104	0.3649
···	31	···	···	8.928	0.2268	79.71	.00006260	0.04039	0.3591
···	···	35	···	8.400	0.2134	70.56	.00005542	0.03575	0.3178
33	···	···	···	8.000	0.2032	64.00	.00005027	0.03243	0.2883
···	32	···	···	7.950	0.2019	63.20	.00004964	0.03203	0.2847
···	···	···	0.20	7.874	0.2000	62.00	.00004869	0.03142	0.2793
···	···	36	···	7.600	0.1930	57.67	.00004536	0.02927	0.2602
···	···	···	0.18	7.087	0.1800	50.23	.00003945	0.02545	0.2263
···	33	···	···	7.080	0.1798	50.13	.00003939	0.02540	0.2258
34	···	···	···	7.000	0.1778	49.00	.00003848	0.02483	0.2207
···	···	37	···	6.800	0.1727	46.24	.00003632	0.02343	0.2083
···	34	···	···	6.305	0.1601	39.75	.00003122	0.02014	0.1790
···	···	···	0.16	6.299	0.1600	39.68	.00003116	0.02011	0.1788
···	···	38	···	6.000	0.1524	36.00	.00002827	0.01824	0.1622
···	35	···	···	5.615	0.1426	31.53	.00002476	0.01597	0.1427
···	···	···	0.14	5.512	0.1400	30.38	.00002386	0.01539	0.1368
···	···	39	···	5.200	0.1321	27.04	.00002124	0.01370	0.1218
35	36	···	···	5.000	0.1270	25.00	.00001963	0.01267	0.1126
···	···	40	0.12	4.800	0.1219	23.04	.00001810	0.01167	0.1037
···	···	···	···	4.724	0.1200	22.32	.00001753	0.01131	0.1006
···	37	···	···	4.453	0.1131	19.83	.00001557	0.01005	0.08934
···	···	41	···	4.400	0.1118	19.36	.00001521	0.009817	0.08921
36	···	42	···	4.000	0.1016	16.00	.00001257	0.008107	0.07207
···	38	···	···	3.965	0.1007	15.72	.00001235	0.007968	0.07084
···	···	···	···	3.937	0.1000	15.50	.00001217	0.007854	0.06982
···	···	43	0.10	3.600	0.09144	12.96	.00001018	0.006567	0.05838
···	39	···	···	3.531	0.08969	12.47	.000009794	0.006319	0.05618
···	···	44	···	3.200	0.08138	10.24	.000008042	0.005189	0.04613
···	40	···	···	3.145	0.07937	9.891	.000007768	0.005012	0.04456
···	41	45	···	2.800	0.07113	7.842	.000006159	0.003973	0.03532
···	42	···	···	2.494	0.06334	6.219	.000004884	0.003151	0.02801
···		46	···	2.400	0.06096	5.760	.000004524	0.002919	0.02595
···	43	···	···	2.221	0.05541	4.932	.000003873	0.002499	0.02222
···	···	47	···	2.000	0.05080	4.000	.000003142	0.002027	0.01802
···	44	···	···	1.978	0.05023	3.911	.000003072	0.001982	0.01762
···	···	···	0.05	1.969	0.05000	3.877	.000003045	0.001963	0.01745
···	45	···	···	1.761	0.04473	3.102	.000002436	0.001572	0.01398
···	···	48	···	1.600	0.04064	2.560	.000002011	0.001297	0.01153
···	46	···	···	1.568	0.03984	2.460	.000001932	0.001246	0.01108
···	47	···	···	1.397	0.03547	1.951	.000001532	0.0009884	0.008787
···	48	···	···	1.244	0.03159	1.547	.000001215	0.0007838	0.006968
···	···	49	···	1.200	0.03048	1.440	.000001131	0.0007297	0.006487
···	49	···	···	1.108	0.02813	1.227	.0000009635	0.0006216	0.005526
···	···	50	···	1.000	0.02540	1.000	.0000007854	0.0005067	0.004505
···	50	···	···	0.9863	0.02505	0.9728	.0000007641	0.0004929	0.004382

Technical Data

Unit Conversion Table

Inch Fraction

Fraction (inches)				mil	mm	Minutes
1/64	···	···	···	15.6	0.397	0.131
···	1/32	···	···	31.3	0.794	0.262
3/64	···	···	···	46.9	1.191	0.392
···	···	1/16	···	62.5	1.588	0.524
5/64	···	···	···	78.1	1.985	0.655
···	3/32	···	···	93.8	2.381	0.786
7/64	···	···	···	109.4	2.778	0.917
···	···	···	1/8	125.0	3.175	1.048
9/64	···	···	···	140.6	3.572	1.179
···	5/32	···	···	156.3	3.969	1.310
11/64	···	···	···	171.9	4.366	1.441
···	···	3/16	···	187.5	4.762	1.572
13/64	···	···	···	203.1	5.159	1.703
···	7/32	···	···	218.8	5.556	1.834
15/64	···	···	···	234.4	5.953	1.964
···	···	···	1/4	250.0	6.350	2.095
17/64	···	···	···	265.6	6.747	2.226
···	9/32	···	···	281.3	7.144	2.357
19/64	···	···	···	296.9	7.541	2.488
···	···	5/16	···	312.5	7.937	2.619
21/64	···	···	···	328.1	8.334	2.750
···	1/32	···	···	343.8	8.731	2.881
23/64	···	···	···	359.4	8.128	3.012
···	···	···	3/8	375.0	9.525	3.143
25/64	···	···	···	390.6	9.922	3.274
···	13/32	···	···	406.3	10.319	3.405
27/64	···	···	···	421.9	10.716	3.536
···	···	7/16	···	437.5	11.112	3.667
29/64	···	···	···	453.1	11.509	3.798
···	5/32	···	···	468.8	11.906	3.929
31/64	···	···	···	484.4	12.303	4.060
···	···	···	1/2	500.0	12.700	4.191

Fraction (inches)				mil	mm	Minutes
33/64	···	···	···	515.6	13.097	4.322
···	17/32	···	···	531.3	13.494	4.453
35/64	···	···	···	546.9	13.891	4.584
···	···	9/16	···	562.5	14.287	4.715
37/64	···	···	···	578.1	14.684	4.846
···	19/32	···	···	593.8	15.081	4.977
39/64	···	···	···	609.4	15.478	5.108
···	···	···	5/8	625.0	15.875	5.239
41/64	···	···	···	640.6	16.272	5.370
···	21/32	···	···	656.3	16.668	5.501
43/64	···	···	···	671.9	17.065	5.632
···	···	11/16	···	687.5	17.462	5.762
45/64	···	···	···	703.1	17.859	5.893
···	23/32	···	···	718.8	18.256	6.024
47/64	···	···	···	734.4	18.653	6.155
···	···	···	3/4	750.0	19.050	6.286
49/64	···	···	···	765.6	19.447	6.417
···	25/32	···	···	781.3	19.843	6.548
51/64	···	···	···	796.9	20.240	6.679
···	···	13/16	···	812.5	20.637	6.810
53/64	···	···	···	828.1	21.034	6.941
···	27/32	···	···	843.8	21.430	7.072
55/64	···	···	···	859.4	21.828	7.203
···	···	···	7/8	875.0	22.224	7.334
57/64	···	···	···	890.5	22.621	7.465
···	29/32	···	···	906.3	23.018	7.596
59/64	···	···	···	912.9	23.415	7.727
···	···	15/16	···	937.5	23.812	7.858
61/64	···	···	···	953.1	24.208	7.989
···	31/32	···	···	968.8	24.605	8.120
63/64	···	···	···	984.4	25.003	8.251
···	···	···	1	1,000.0	25.339	8.382

Length

mm	cm	m	km	inches	feet	yards	chains	miles	nautical miles
3.03030	.303030	.003030	.000003	.119305	.009942	.003314	.000150	.000001	.000001
30.3030	3.03030	.030303	.000030	1.19305	.099421	.033140	.001506	.000018	.000016
303.030	30.3030	.303030	.000303	11.9305	.994211	.331403	.015063	.000188	.000163
1,818.18	181.818	1.81818	.001818	71.5832	5.96527	1.98842	.090382	.001129	.000981
109.090	10,909.0	109.090	.109090	4,294.99	357.916	119.305	5.42297	.067784	.058867
···	392,727	3,927.27	3.92727	154,619	12,884.9	4,294.99	195.227	2.44033	2.11924
1	100000	.001000	.000001	.039370	.003280	.001093	.000049	.000000	.000000
10.000	1	.010000	.000010	.393707	.032808	.010936	.000497	.000006	.000005
1,000.00	100.000	1	.001000	39.3707	3.28089	1.09363	.049710	.000621	.000539
···	100.000	1,000.00	1	39,370.7	3,280.89	1,093.63	497.106	.621382	.539621
25.39952.53995.025399		.000025	1	0.83333	.027777	.001262	.000015	.000013	
304.79430.4794.304794		.000304	12.0000	1	.333333	.015151	.000189	.000164	
914.38391,4383.914383		.000914	36.0000	3.00000	1	.045454	.000568	.000494	
20,116.4	2,011.64	20.1164	0.20116	792.000	66.0000	22.0000	1	.012500	.010855
···	160,931	1,608.31	1.60931	63,360.0	5,280.00	1,760.00	80.0000	1	.868421
···	185,315	1,853.15	1.85315	72,960	6,080.00	2,026.66	92.1212	1.15151	1

Technical Data

Unit Conversion Table

Area

sq.m	are	sq.km	sq.in	sq.ft	sq.yd	sq.chain	acre	sq.mile
.000918	.000009	.000000	1.42337	.009884	.000109	.000002	.000000	.000000
.091827	.000918	.000000	142.337	.988457	.109828	.000226	.000022	.000000
3.30582	.033058	.000003	5,124.15	35.5844	3.95382	.008169	.000816	.000001
99.1736	.991736	.000099	153,724	1,067.53	118.614	.245072	.024507	.000038
991.736	9.91736	.000991	···	10,675.3	1,186.14	2.45072	2.45072	.000382
9,917.36	99.1736	.009917	···	106.753	11,861.4	24.5072	24.5071	.003829
···	154.234	15.4234	···	···	···	38,113.6	3,811.36	5.95525
1	.010000	.000001	1,550.05	10.7642	1.19599	.002471	.000247	.000000
100.000	1	.000100	155.055	1,076.42	119.599	.247114	.024711	.000038
···	10,000.0	1	···	···	···	2,471.14	247.114	.386116
.000645	.000006	···	1	.006944	.000771	.000001	.000000	.000000
.092899	.000928	···	144.000	1	.111111	.000229	.000022	.000000
.836097	.008360	.000000	1,296.00	9.00000	1	.002066	.000206	.000000
404.671	4.04671	.000404	627.264	4,356.00	484.000	1	.100000	.000156
4,046.71	40.4671	.004046	···	43,560.0	4,840.00	10.0000	1	.001562
···	25,898.9	2.58989	···	···	···	6,400.00	640.000	1

Volume

cub.cm	cub.m	liters	cub.in	cub.ft	cub.yd	Eng.Gallon	U.S.Gallon
27.8264	.000027	.027826	1.69816	.000982	.000036	.006127	.007351
27,826.4	.027826	27.8265	1,698.16	.932735	.036397	6.12784	7.35137
···	6.01051	6,010.51	366,802	212.259	7.86114	1,323.61	1,587.99
18.0390	.000018	.018039	1.10041	.000637	.000023	.003972	.004765
180.390	.000180	.180390	11.0041	.006370	.000235	.039725	.047656
1,803.90	.001803	1.80390	110.041	.063707	.002359	.397250	.476567
18,039.0	.018039	18.0390	1,100.41	.637077	.023594	3.97250	4.76567
180.390	.180390	180.390	11,004.1	6.37077	.235954	39.7250	47.6567
1	.000001	.001000	.061027	.000035	.000001	.000220	.000264
···	1	1,000.00	61,027.1	35.3165	1.30802	220.216	264.186
1,000.00	.001000	1	61.0271	.035316	.001308	.220216	.264186
16.3870	.000163	.016387	1	.000578	.000021	.003608	.004329
28,316.8	.028316	28.3168	1,728.00	1	.037037	6.23549	7.43051
764,554	.764554	764.554	46,656.0	27.0000	1	168.358	201.974
4,545.96	.004545	4.54596	277.413	.160372	.005939	1	1.2010
3,785.43	.003785	3.78543	231.00	.133680	.004951	.83270	1

Weight

carat	mg	grams	kg	kilo-tons	grains	ounces	pounds	long-tons	short-tons
1.87500	375.000	.375000	.000375	.000000	5.78712	.013227	.000826	.000000	.000000
18.7500	375.000	3.75000	.003750	.000003	57.8712	.132277	.008267	.000003	.000004
1,875.00	375.000	375.000	.375000	.000375	5,787.12	13.2277	.826732	.000369	.000413
18,750.0	···	3,750.00	3.75000	.003750	57,871.2	132.277	8.26732	.003690	.004133
3,000.00	600.000	600.000	.600000	.000600	9,259.30	21.1641	1.32277	.000590	.000661
1	200.000	.200000	.000200	···	3.08640	.007050	.000440	.000000	.000000
.005000	1	.001000	.000001	···	.015432	.000035	.000002	.000000	.000000
5.00000	1,000.00	1	.001000	.000001	15.4320	.035273	.002204	.000000	.000001
5,000.00	···	1,000.00	1	.001000	15,432.0	35.2739	2.20462	.000984	.001102
···	···	···	1,000.00	1	···	35,273.9	2,204.62	.984205	1.10230
.323994	64.7988	.064798	.000064	···	1	.002285	.000142	.000000	.000000
141.747	28,349.5	28.3495	.028349	.000028	437.500	1	.062500	.000027	.000031
2,267.96	453,592	453.592	.453592	.000453	7,000.00	16.0000	1	.000446	.000500
···	···	···	1,016.04	1.01604	···	35,840.0	2,240.00	1	1.12000
···	···	···	907.178	.907178	···	32,000.0	2,000.00	.892857	1

Technical Data

General Characteristics of Insulation Materials

Materials

Material / Symbol / Characteristics		PVC Resin			Polyethylene		Poly-propylene	Fluorine Resin						Flame Resistant Polyfiex	Polyamide
		PVC	Heat Resistant PVC	Cross-linked PVC	Polyethy-lene	Cross-linked Polyethy-lene		Vinylid-ene Fluo-ride	Ethylene-tetra Fluoroe-thylene	Fluoroe-thylene Proply-lene	Poly-tetra-fluoro-ethylene	Perfluoro-alcoxy	Fluonlex		Nylon
		PVC	H-PVC	XLPVC	PE	XLPE	PP	PVdF	ETFE	FEP	PTFE	PFA	LEF	-	NY
Electrical	Dielectric Strength (kV/mm)	20~35	20~35	25~40	35~50	35~50	35~50	20~35	20~35	15~30	20~30	20~35	20~30	20~39	-
	Volume Resistivity (Ω/cm)	10^{12}~10^{15}	10^{12}~10^{15}	10^{18}	10^{18}	10^{18}	10^{18}	10^{14}	>10^{16}	>10^{18}	>10^{18}	>10^{18}	10^{15}	10^{14}	-
	Dielectric Constant	6~8	6~8	3.5~5	2.3	2.3	2.3	3.5~8	2.6	2.1	2.1	2.1	3.8	5~6	-
	Dielectric Power Factor (%)	4~12	4~12	3~10	0.02~0.05	0.02~0.05	0.02~0.05	5~25	0.2	0.03	0.02	0.02	-	2~3	-
Mechanical	Tensile Strength (kg/mm^2)	1.0~2.5	1.0~2.5	1.5~3.0	1.2~1.5	1.2~1.5	2.5~3.5	7~8	6~7	6~7	1.5~3.0	1.5~3.0	1.6	1.5~2.0	4~7
	Elongation (%)	100~400	100~400	100~300	500~700	200~500	500~700	350~450	200~300	100~300	100~300	100~300	350	500~600	100~300
Specific Gravity		1.25~1.40	1.25~1.40	1.25~1.40	0.92~0.95	0.92~0.95	0.89~0.90	1.77	1.7	2.2	2.2	2.2	1.7	1.2~1.3	1.1~1.5
Softening Temperature (°C)		120	150	-	105~115	-	160	149	270	285	327	305	-	-	230
Rated Temperature (°C)		60	75~105	105	75	105~125	105	105	150	200	250	250	200	105	90
Flame Retardant		Very Good	Very Good	Very Good	Unsatis-factory	Unsatis-factory	Unsatis-factory	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Unsatis-factory
Heat Resi-stance	Aging Resistance	Fair	Good	Very Good	Good	Very Good	Very Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Very Good	Very Good
	Heat Deformation Resistance	Fair	Fair	Excellent	Fair	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Very Good	Very Good
Cold Resistance		Fair	Fair	Fair	Very Good	Very Good	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
Weather Resistance		Excellent	Excellent	Excellent	Unsatisfactory (Excellent)	Unsatisfactory (Excellent)	Unsatisfactory (Excellent)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good
Ozone Resistance		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Very Good
Oil Resistance		Good	Good	Good	Good	Excellent	Excellent	Excellent	Highly Excellent	Highly Excellent	Highly Excellent	Highly Excellent	Excellent	Good	Very Good
Acid Resistance		Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Highly Excellent	Highly Excellent	Excellent	Excellent	Excellent	Fair
Alkali Resistance		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Highly Excellent	Highly Excellent	Excellent	Excellent	Excellent	Good

Technical Data

Oil and Solvent Resistance of plastic and Rubber Materials

Materials

Material / Dipping Chemicals	PVC Resin (Soft for wire)	Polyethylene	Cross-linked Polyethylene	Fluorine Resin	Fluorine Rubber	Silicone Rubber	S B R	Nitrile Rubber	Butyl Rubber	Chloroprene Rubber	Natural Rubber	Hypalon	Polyflex	Ethylene Propylene Rubber
Benzene	B	B	B	A	C	F	E	E	E	E	E	E	E	D
Hexane	C	B	B	A	A	E	E	A	E	C	E	C	D	D
Naphtha	B	B	B	A	C	E	E	D	F	E	E	F	D	B
Gasoline	C	B	B	A	B	E	E	A	F	C	E	D	D	B
Chloroform	D	B	B	A	D	E	F	G	F	F	F	G	E	D
Carbon Tertrachloride	A	B	B	A	C	F	F	C	F	F	F	G	E	B
Carbon Disulfide	B	B	B	A	B	D	F	B	E	F	F	F	D	E
Acetone	D	A	A	A	C	C	A	F	A	A	A	A	B	A
Ethylene Glycol	A	A	A	A	A	A	A	A	B	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Furfural	C	A	A	A	C	B	A	F	A	A	A	A	A	B
Cresol	B	A	A	A	A	A	B	F	B	C	B	C	D	B
Creosote Oil	F	B	B	A	C	A	F	G	B	F	F	G	C	D
Aniline	B	B	B	A	A	A	B	G	A	D	B	B	C	B
ASTM No.1 Oil	A	A	A	A	A	A	B	A	A	A	C	A	A	D
ASTM No.2 Oil	A	A	A	A	A	A	B	A	B	A	C	A	B	D
ASTM No.3 Oil	A	A	A	A	A	B	E	A	D	B	F	B	C	E
Transformer Oil	A	A	A	A	A	B	F	A	F	B	F	C	C	D
Silicone Oil	A	A	A	A	A	C	A	A	A	A	A	A	A	A
Vegetable Oil	A	A	A	A	A	A	B	A	A	A	C	A	A	A
D O P	B	A	A	A	B	A	C	A	A	E	C	D	B	D
Petroleum Ether	E	A	A	A	F	F	E	C	C	D	E	C	C	B
Freon 12	A	A	A	A	D	E	E	C	E	E	F	D	B	B
Heavy Oil	A	B	B	A	A	D	E	A	F	C	E	D	C	E
Trichlene	B	B	B	A	C	E	F	D	F	E	F	E	E	B

Remarks

1. A : Virtually no change
   B : Affected slightly
   C : Slight swelling, but no major affect
   D : Noticeable swelling. Not suitable for practical purposes except in special cases
   E : Swollen. Not suitable for practical uses
   F : Seriously swollen
   G : Maximum swelling and decomposition

2. Results will depend upon the temperature. Use this table as a general guide.

Technical Data

Migration of Plastic and Rubber Materials

Materials

Insulation Material / Contact Material		Name	PVC (Including Cross-linked PVC)	Polyethylene (Including Cross-linked Polyethylene)	Vinylidene Fluoride	TFE FEP	ETFE	Nylon	Chloroprene Rubber	Butyl Rubber	Polyester
Name		Symbol	PVC (IRV)	PE (IRE)	PVdF (KF)	TFE FEP	ETFE (FH)	PA (NY)	CR	IIR	UP
Thermosetting Substances	Phenol	PF	○	○	○	○	○	○	○	○	○
	Urea	UF	○	○	○	○	○	○	○	○	○
	Melamine	MF	×	○	○	○	○	○	○	×	○
	Epoxy	EP	○	×	○	○	○	○	○	○	○
	Unsaturated Polyester	UP	○	○	○	○	○	○	○	○	○
	Diarylphthalate	PDAP	○	○	○	○	○	○	○	○	○
	Polybutylene Terephthalate	PBT	○	○	○	○	○	○	○	○	○
	Alkyd		○	○	○	○	○	○	○	○	○
	Noryl (denatured PPO)	PPO	○	○	○	○	○	○	○	○	○
	Silicone	SI	×	○	○	○	○	○	○	○	○
Thermoplastic Substances	PVC	PVC	○	×	○	○	○	○	×	×	○
	Vinylidene Fluoride	PVdF	○	○	○	○	○	○	×	×	○
	Styrene Sterol	PS	×	○	○	○	○	○	○	×	○
	ABS	ABS	×	○	○	○	○	○	○	×	○
	ABC	ABC	×	○	○	○	○	○	○	○	○
	Polyethylene	PE	×	○	○	○	○	○	×	×	○
	Polypropyrene	PP	○	○	○	○	○	○	○	×	○
	Nylon Polyamide	PA	○	○	○	○	○	○	○	○	○
	Polyacetal	POM	○	○	○	○	○	○	○	○	○
	Polymethyl Methacrylate	PMMA	×	○	○	○	○	○	○	×	○
	TFE/PTFE	TFE	○	○	○	○	○	○	○	○	○
	FEP	FEP	○	○	○	○	○	○	○	○	○
	CTEF/Kel-F	CTFE	○	○	○	○	○	○	○	○	○
	Tefzel	ETFE	○	○	○	○	○	○	○	○	○
	Polycarbonate	PC	×	○	○	○	○	○	○	○	○
	Polyether		○	○	○	○	○	○	○	○	○
	Ionomer		○	○	○	○	○	○	○	○	○
	Acetate	CA	×	○	○	○	○	○	×	×	○
	Polyurethane	PUR	○	○	○	○	○	○	○	×	○
	Natural Rubber	NR	×	○	×	○	○	○	○	○	○
	Butyl Rubber	IIR	×	×	×	○	○	○	○	○	○
	Silicone Rubber	SiR	×	○	×	○	○	○	○	○	○
	Neoprene Rubber	CR	×	○	×	○	○	○	○	○	○
	Nitrile Rubber	NBR	×	○	×	○	○	○	○	○	○
	SBR Rubber	SBR	×	○	×	○	○	○	○	○	○
	AS	AS	×	○	○	○	○	○	○	○	○

Remarks

O : No Migration / X : Migration

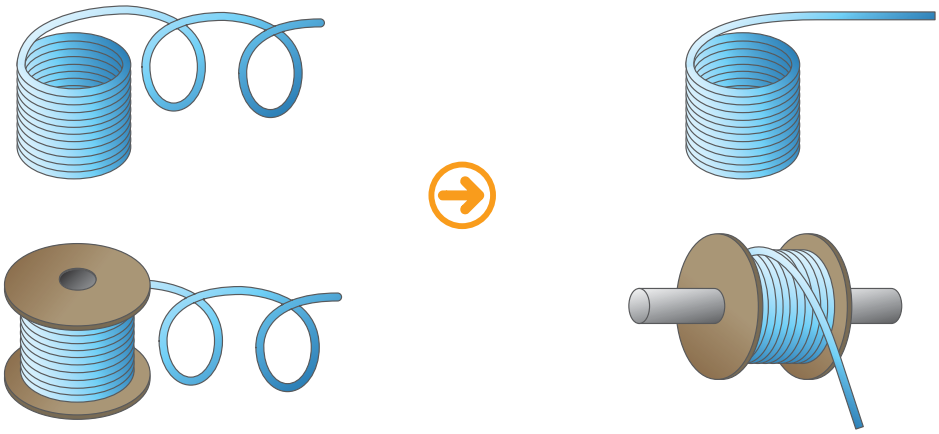
Migration does not always move away from the wire. It can also move towards the wire.

Technical Data

Installing information

Wrong!

Correct!



In case of pulling or installing, the cables must not be twist!

The cable weight should be distributed symmetrically across the width of the chain!

When cable diameter is no more than 50% of chain inner height, separation must be made between the cables!

The free space for the cables in the guide stay should be 20% of the cable diameter!

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