

INSTALLATION CABLES FOR INDUSTRIAL ELECTRONICS

For information transmission in dry and moist production sites, in and under plaster as well as outdoors for fixed installation

Not approved for power and underground installation.

JE-Y(St)Y ... Bd	68
JE-Y(St)Yv ... Bd	69
JE-Y(St)YY ... Bd	69
JE-H(St)H ... Bd	70
JE-HCH ... Bd	71

JE-LIYY ... Bd	72
JE-LIYCY ... Bd	73
JE-LIHCH ... Bd	74
JE-LIHH ... Bd	75

Temperature range during installation	-5°C to + 50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-H(St)H ... Bd

acc. to DIN VDE 0815



APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for signal transmission in communication systems with fixed installation. Not applicable for power installation.

CONSTRUCTION

Conductor: copper, solid, bare; $\varnothing = 0,8$ mm

Core insulation: halogen-free compound

Core stranding: 2 cores to pair, 4 pairs to lay up, bundles to lay up, 2 pairs to quad

Lapping: plastic foil

Screen: tinned drain wire $\varnothing = 0,8$ mm; plastic-laminated aluminium foil

Sheath: halogen-free compound; colour: preferably pebble grey RAL 7032, upon request also blue RAL 5015 a.o.

BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in DIN EN 50266-2-4, VDE 0482 as well as IEC 60332-3

No emission of corrosive gases

Low smoke development

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
2x2x0,8	1,0	6,0	55	25	10471200
4x2x0,8	1,0	7,7	90	45	10471300
8x2x0,8	1,0	10,5	155	85	10471400
12x2x0,8	1,0	11,5	205	126	10471500
16x2x0,8	1,0	12,2	255	166	10471600
20x2x0,8	1,2	14,0	325	206	10471700
24x2x0,8	1,2	14,9	380	246	10471800
32x2x0,8	1,4	18,6	515	327	10471900
40x2x0,8	1,4	20,0	620	407	10472000
48x2x0,8	1,4	21,0	720	490	

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	73,2 Ω /km
Insulation resistance min.	100 M Ω x km
Mutual capacitance (800 Hz) max.	120 nF/km
up to 4 DA max.	140 nF/km
Capacitance unbalance (800 Hz)	max 200 pF/100 m
Test voltage core-core	500 V 50 Hz 1 min
Test voltage core-screen	2000 V 50 Hz 1 min
Peak operating voltage	225 V

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-HCH ... Bd

acc. to DIN VDE 0815



APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for signal transmission in communication and measuring systems with fixed installation. Not applicable for power installation.

CONSTRUCTION

Conductor: copper, solid, bare; $\varnothing = 0,8$ mm

Core insulation: halogen-free compound

Core stranding: 2 cores to pair; 4 pairs to lay up, bundles to lay up; 2-paired wire to star-quad

Lapping: plastic foil

Screen: tinned copper wire braid

Sheath: halogen-free compound; colour: pebble grey RAL 7032 or blue RAL 5015

BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in DIN EN 50266-2-4, VDE 0482 as well as IEC 60332-3

No emission of corrosive gases

Low smoke development

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
2x2x0,8	1,0	6,6	75	48	10472200
4x2x0,8	1,0	8,4	115	84	10472300
8x2x0,8	1,0	11,3	190	140	10472400
12x2x0,8	1,2	12,7	260	189	19020400
16x2x0,8	1,2	13,8	320	239	19020500
20x2x0,8	1,2	15,0	375	286	19020600
32x2x0,8	1,4	18,8	575	429	19020700
40x2x0,8	1,4	22,0	710	526	
52x2x0,8	1,6	24,0	895	675	

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	73,2 Ω /km
Insulation resistance min.	100 M Ω xkm
Mutual capacitance (800 Hz) max.	120 nF/km
cables up to 4 DA max.	144 nF/km
Capacitance unbalance (800 Hz) max.	200 pF/100 m
Test voltage core-core	500 V 50 Hz 1 min
Test voltage core-screen	2000 V 50 Hz 1 min
Peak operating voltage	225 V

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	- 5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	10x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-LIYY ... Bd

acc. to DIN VDE 0815



APPLICATION

For information transmission in dry and moist production sites, on and under plaster as well as outdoors for fixed installation. Not approved for power and underground installation.

CONSTRUCTION

Conductor: copper strand; bare, $7 \times 0,3 \text{ mm} = 0,5 \text{ mm}$; $\varnothing = 0,9 \text{ mm}$

Core insulation: PVC

Core identification: in bundles with rings

Core stranding: 8 cores to lay up, bundles to lay up; in bundles consisting of 4 cores each of 2 successive bundles gets the same ring marking

Lapping: plastic foil

Sheath: PVC; colour: preferably pebble grey RAL 7032

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
4x1x0,5	1,0	6,0	50	20	10542000
8x1x0,5	1,0	6,8	80	40	10189000
16x1x0,5	1,0	10,0	145	80	10333500
24x1x0,5	1,0	11,0	195	120	10008900
32x1x0,5	1,0	11,9	250	160	10407400
40x1x0,5	1,2	13,4	315	200	10009100
48x1x0,5	1,2	14,0	365		
80x1x0,5	1,4	19,6	610	400	10010900

ELECTRICAL CHARACTERISTICS

Conductor resistance max.	38,4 Ω /km
Insulation resistance min.	100 M Ω x km
Peak operating voltage	225 V
Test voltage core-core	500 V 50 Hz 1 min

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-LIYCY ... Bd

acc. to DIN VDE 0815



APPLICATION

For information transmission at dry and moist production sites, on and under plaster as well as outdoors for fixed installation. Not approved for power and underground installation.

CONSTRUCTION

Conductor: copper strand; bare, $7 \times 0,3 \text{ mm} = 0,5 \text{ mm}$; $\varnothing = 0,9 \text{ mm}$

Core insulation: PVC compound TI51 acc. to DIN EN 50290-2-21

Core stranding: 2 cores to pair; 2 pairs to quad; 4 pairs to lay up, bundles to lay up

Lapping: plastic foil

Screen: tinned copper wire braid

Sheath: PVC; colour: pebble grey RAL 7032; low flame propagation acc. to; **flame-retardant** acc. to IEC 60332-3; addition

FR in code designation; additional characteristics upon request; identification by addition to code designation: e. g. **UV resistant:** JE-LIYCYuv

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
1x2x0,5	1,0	6,2	60	35	10978400
2x2x0,5	1,0	7,0	75	48	10581300
4x2x0,5	1,0	8,6	120	84	10581400
8x2x0,5	1,0	12,0	200	140	10581500
12x2x0,5	1,2	13,1	265	193	10581600
16x2x0,5	1,2	14,3	325	243	10581700
20x2x0,5	1,2	15,5	385	292	10675700
24x2x0,5	1,2	16,8	450	342	10675800
32x2x0,5	1,4	20,5	610	435	10675900
40x2x0,5	1,4	22,5	720	531	10676000
48x2x0,5	1,6	24,0	850	637	

BEHAVIOR UNDER FIRE CONDITIONS

Category C: JE-LIYCY acc. to IEC 60332-3-24

Category A: JE-LIYCY-FR acc. to IEC 60332-3-22

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	78,4 Ω /km
Insulation resistance min.	100 M Ω x km
Mutual capacitance (800 Hz) max.	100 nF/km
up to 4 DA max.	120 nF/km
Capacitance unbalance (800 Hz) max.	200 pF/100 m
Inductance (guide value)	0,61 mH/km
Peak operating voltage	225 V
Test voltage core-core	500 V 50 Hz 1 min
Test voltage core-screen	2000 V 50 Hz 1 min

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-LIHCH ... Bd

acc. to DIN VDE 0815



APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for signal transmission in communication and measuring systems with fixed installation. Not applicable for power installation.

CONSTRUCTION

Conductor: copper strand, bare, $7 \times 0,3 \text{ mm} = 0,5 \text{ mm}^2$

Core insulation: halogen-free compound

Core stranding: 2 cores to pair; 4 pairs to lay up, bundles to lay up; 2-paired wire to star-quad

Lapping: plastic foil

Screen: tinned copper wire braid

Sheath: halogen-free compound; flame-resistant acc. to IEC 60332-3; colour: preferably grey RAL 7032

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
1x2x0,5	1,0	6,2	65	35	10473100
2x2x0,5	1,0	6,8	80	48	10473200
4x2x0,5	1,0	9,1	130	84	10473300
8x2x0,5	1,0	11,5	200	140	10473400
12x2x0,5	1,2	14,1	285	193	10473500
16x2x0,5	1,2	15,4	345	243	10473600
20x2x0,5	1,2	16,7	410	292	10473700
24x2x0,5	1,4	18,8	490	342	10473800
32x2x0,5	1,4	21,6	625	435	10473900
40x2x0,5	1,6	24,7	780	531	10474000
48x2x0,5	1,6	25,9	890	610	10474700

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	78,4 Ω/km
Insulation resistance min.	100 MΩ x km
Mutual capacitance (800 Hz) max.	120 nF/km
cables up to 4 DA max.	144 nF/km
Capacitance unbalance (800 Hz)	max. 200 pF/100 m
Peak operating voltage	225 V
Test voltage core-core	500 V 50 Hz 1 Min
Test voltage core-screen	2000 V 50 Hz 1 Min

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request

JE-LIHH ... Bd

acc. to DIN VDE 0815



APPLICATION

This halogen-free, flame-resistant installation cable is used where increased fire protection of persons, material goods and buildings is required. It serves for signal transmission in communication systems with fixed installation. Not applicable for power installation.

CONSTRUCTION

Conductor: bare copper strand; strand $7 \times 0,3 \text{ mm} = 0,5 \text{ mm}^2$

Core insulation: halogen-free compound

Core identification: in bundles: blue, red, grey, yellow, green, brown, white, black; in bundles with rings

Core stranding: 8 cores to lay up, bundles to lay up; in bundles consisting of 4 cores each of 2 successive bundles gets the same ring marking

Lapping: at least two layers plastic foil

Sheath: halogen-free compound; colour: preferably grey RAL 7032

BEHAVIOR UNDER FIRE CONDITIONS

Low flame propagation acc. to requirements specified in IEC 60332-3

No emission of corrosive gases

Low smoke development

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	article number
4x1x0,5	1,0	6,1	50	20	10626100
8x1x0,5	1,0	6,9	80	40	10626200
16x1x0,5	1,0	10,2	150	80	10626300
24x1x0,5	1,0	11,0	200	120	10626400
32x1x0,5	1,0	12,2	255	160	10626500
40x1x0,5	1,2	13,6	325	200	10626600
48x1x0,5	1,2	14,2	375		
80x1x0,5	1,4	19,8	630	400	

ELECTRICAL CHARACTERISTICS

Conductor resistance max.	38,4 Ω/km
Insulation resistance min.	100 MΩ x km
Peak operating voltage	225 V
Test voltage core-core	500 V 50 Hz 1 min

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	-5°C to +50°C
Temperature range stationary	-30°C to +70°C
Minimum bending radius	7,5 x diameter

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request



CABLES MADE IN GERMANY