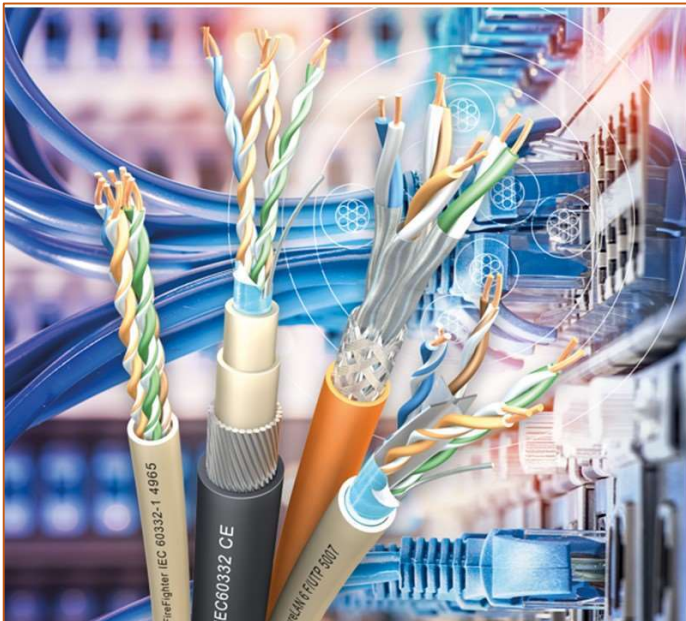


ELECTRICAL CABLES & COMMUNICATION SYSTEM

ESCAB

PERFORMANCE - SOLUTION - CUSTOMIZE



HOME & BUILDING AUTOMATION CABLES

DATA MULTI-PAIR 300V

UL 2464

Construction:

- Conductor: Stranded Tinned Copper
- Insulation: PVC
- Formation: cores twisted a pairs
- Screen: Overall Aluminium/polyester tape & drain wires
- Outer sheath: PVC-FR Flame retardant (UL)CMH

Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, BMS/BEMS, current loop LAN Input/Output, , security systems, fire detection and many more.
- interconnecting of area controllers and PC gateways.

Standard:

- Flame retardant: IEC 60332-1, IEC 60332-2, UL1581
- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- Rated Voltage 300 V
- Cables complied to UL2464

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- Dielectric Strength: 2.0kV dc @ 1 min
- Test voltage core/screen: 1.k0V dc @ 1 min
- Peak Operating Voltage: 300V



Size	Nom. Shielded DC resistance (ohm/km)	Nom. Conductor DC resistance (ohm/km)	Nom. Capacitance (core/screen) pF/km	Nom. Capacitance (core/core) (pF/km)	Style
24AWG	54	78.7	164	98	300V UL2464
22AWG	52	54.7	125	79	300V UL2464
20AWG	39	37.4	141	89	300V UL2464
18AWG	26	23.5	132	58	300V UL2464
16AWG	25	14.9	130	56	300V UL 2464



DATA MULTI-PAIR 300V

UL 2464

Order Part Number:

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Cable Weigh (Kg/Km)
E41-TSY-0222	UL 2464 TC/PVC/OS/PVC 1x2x22AWG	4.6	Grey	500m	31
E41-TSY-0220	UL 2464 TC/PVC/OS/PVC 1x2x20AWG	5.1	Grey	500m	41
E41-TSY-0218	UL 2464 TC/PVC/OS/PVC 1x2x18AWG	5.6	Grey	500m	48
E41-TSY-0216	UL 2464 TC/PVC/OS/PVC 1x2x16AWG	6.3	Grey	500m	68
E42-TSY-0211	UL 2464 TC/PVC/OS/PVC 2x2x22AWG	5.6	Grey	500m	42
E42-TSY-0220	UL 2464 TC/PVC/OS/PVC 2x2x20AWG	6.3	Grey	500m	58
E42-TSY-0218	UL 2464 TC/PVC/OS/PVC 2x2x18AWG	7.7	Grey	500m	78
E42-TSY-0216	UL 2464 TC/PVC/OS/PVC 2x2x16AWG	8.2	Grey	500m	111
E43-TSY-0222	UL 2464 TC/PVC/OS/PVC 3x2x22AWG	6.4	Grey	500m	54
E43-TSY-0220	UL 2464 TC/PVC/OS/PVC 3x2x20AWG	7.3	Grey	500m	73
E43-TSY-0218	UL 2464 TC/PVC/OS/PVC 3x2x18AWG	8.4	Grey	500m	99
E43-TSY-0216	UL 2464 TC/PVC/OS/PVC 3x2x16AWG	9.6	Grey	500m	141



HOME & BUILDING AUTOMATION CABLES

C-BUS CONTROL 2 X 2 X 22AWG 300V

UL 2464



Construction:

- Conductor: Stranded Tinned Copper 22AWG
- Insulation: Foam Polyolefin (PE)
- Formation: 1° Pair : Black/Red - 2° Pair: White/Green
- Core stranding: Core twisted to pairs
- Screen:
 - Pair screen - Individual Aluminium/Polyester tape + tinned copper drain wire.
 - Overall Aluminium/Polyester tape + tinned copper drain wire.
- Outer sheath:
 - LSZH Low Smoke Zero Halogen (UL)CMP
 - PVC-FR Flame retardant (UL)CMH

Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more..

Standard:

- Flame retardant: IEC 60332-1, IEC 60332-2, UL1581
- UV Stable acc. to ISO 4892-2/A
- Cables complied to UL2464
- Flame retardant acc. to IEC 60332-1-2
- Halogen Free acc. to IEC 60754-1 (LSZH)
- Smoke Density acc. to IEC 61034 (LSZH)
- Rated Voltage 300 V or (600V as option only)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------|------------------|
| • Conductor DC Resistance: | Max 54,0 ohm/km |
| • Capacitance (core/core) | 115pF/m |
| • Capacitance (core/screen) | 220pF/m |
| • Dielectric Strength: | 2.0kV dc @ 1 min |
| • Test voltage core/screen: | 1.k0V dc @ 1 min |
| • Inductance: | 0.56 uH/m |
| • Peak Operating Voltage: | 300V |

Order Part Number:

ESCAB Order No.	Cable Type	Conductor Resistant	Outer Diameter	Color	Packing Standard	Original
		(Ω/km)	(mm)		(per reel)	
B42-OS-0222Y	ESCAB C-Bus UL2464 2x2x22AWG PVC	54.7	5,60	Grey	500M	ESCAB
B42-OS-0222H	ESCAB C-Bus UL2464 2x2x22AWG LSHF	54.7	5,60	Grey	500M	ESCAB

HOME & BUILDING AUTOMATION CABLES

SHIELDED MULTI-CORES UL/CSA

STYLE UL 2092 | 300V | 600V

Construction:

- Conductor: Stranded Tinned Copper
- Insulation: High Density Polyethylene (HDPE) - UL2092
- Formation: Black/Natural
- Core stranding: Core twisted to pairs
- Screen: Overall Aluminium/Polyester tape + Tinned copper wire
- Outer sheath: Grey color UV resistance PVC-FR Flame retardant. (UL)CMH



Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more.
- Used in building management installations for use in BEMS/BMS/HVAC Current Loop LAN Input/Output Wiring applications.
- A range of shielded single pair and multi-core cables for indoor use in instrumentation, data and audio applications where protection against electrical interference is required. The insulation used has lower signal loss.

Standard:

- Flame retardant: IEC 60332-1-2, IEC 60332-2, (UL)CMH - UL1581
- UV Stable acc. to ISO 4892-2/A
- Cables complied to UL2092
- Rated Voltage 300 V or (600V as option only)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------|------------------|
| • Capacitance (core/core) | 70 ~ 120pF/m |
| • Capacitance (core/screen) | 120 ~ 220pF/m |
| • Dielectric Strength: | 2.0kV dc @ 1 min |
| • Test voltage core/screen: | 1.k0V dc @ 1 min |
| • Inductance: | 0.56 uH/m |
| • Insulation resistant: | > 100 MΩ/km |



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SHIELDED MULTI-CORES UL/CSA

STYLE UL 2092

Order Part Number:

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Cable Weight (Kg/Km)
E01-TSY-0222	TC/PE/OS/PVCFR 2x22AWG	4,20	Grey	500M	31
E01-TSY-0220	TC/PE/OS/PVCFR 2x20AWG	4,70	Grey	500M	41
E01-TSY-0218	TC/PE/OS/PVCFR 2x18AWG	5,40	Grey	500M	48
E01-TSY-0216	TC/PE/OS/PVCFR 2x16AWG	6,10	Grey	500M	68
E01-TSY-0214	TC/PE/OS/PVCFR 2x14AWG	9,90	Grey	500M	68
E01-TSY-0322	TC/PE/OS/PVCFR 3x22AWG	3,80	Grey	500M	36
E01-TSY-0320	TC/PE/OS/PVCFR 3x20AWG	4,70	Grey	500M	49
E01-TSY-0318	TC/PE/OS/PVCFR 3x18AWG	5,70	Grey	500M	63
E01-TSY-0316	TC/PE/OS/PVCFR 3x16AWG	6,40	Grey	500M	89
E01-TSY-0314	TC/PE/OS/PVCFR 3x14AWG	11,20	Grey	500M	89
E01-TSY-0422	TC/PE/OS/PVCFR 4x22AWG	5,10	Grey	500M	42
E01-TSY-0420	TC/PE/OS/PVCFR 4x20AWG	5,50	Grey	500M	58
E01-TSY-0418	TC/PE/OS/PVCFR 4x18AWG	6,30	Grey	500M	78
E01-TSY-0416	TC/PE/OS/PVCFR 4x16AWG	6,80	Grey	500M	111
E01-TSY-0414	TC/PE/OS/PVCFR 4x14AWG	12,90	Grey	500M	147

□ "E01-TSY-0416" : ESCAB Multi-Core Tinned Copper Shielded 04x16AWG Style UL2092

Electrical Characteristics:

Capacitance (core/core)	Capacitance (core/screen)	Conductor DC resistance	Impedance	P.N	Voltage
80	150	54,7	< 70	E01-TSY-0222	300V
90	160	37,4	< 70	E01-TSY-0220	300V
100	150	23,5	< 70	E01-TSY-0218	300V
80	150	14,7	< 70	E01-TSY-0216	300V
130	200	9,15	< 70	E01-TSY-0214	600V
80	160	54,7	< 70	E01-TSY-0322	300V
100	200	37,4	< 70	E01-TSY-0320	300V
80	140	23,5	< 70	E01-TSY-0318	300V
90	170	14,7	< 70	E01-TSY-0316	300V
130	220	9,15	< 70	E01-TSY-0314	600V
70	160	54,7	< 70	E01-TSY-0422	300V
70	120	37,4	< 70	E01-TSY-0420	300V
80	130	23,5	< 70	E01-TSY-0418	300V
120	130	14,7	< 70	E01-TSY-0416	300V
130	240	9,15	< 70	E01-TSY-0414	600V

Color code Characteristics:

No. of Cond.	Color	Color	No. of Cond.	Color	Color
1	Black	Black	7	White/Black	
2	Red	White or Transparent	8	Red/Black	
3	Green	Red	9	Green/Black	
4	White	Green	10	Orange/Black	
5	Brown	Orange	11	Blue/Black	
6	Blue	Blue	12	Black/White	

HOME & BUILDING AUTOMATION CABLES

UNSHIELDED COMMUNICATION CABLES

STYLE UL2464 300V | 600V

Construction:

- Conductor: Stranded Bare Copper
- Insulation: PVC
- Formation: Color cores
- Core stranding together
- Screen: none screening
- Outer sheath: Grey color UV resistance PVC-FR Flame retardant. (UL)CMH

Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more.
- Used in building management installations for use in BEMS/BMS/HVAC Current Loop LAN Input/Output Wiring applications.
- A range of un-shielded single pair and multi-core cables for indoor use in instrumentation, data and audio applications where protection against electrical interference is required. The insulation used has lower signal loss.

Standard:

- Flame retardant: IEC 60332-1-2, IEC 60332-2, (UL)CMH-UL1581
- UV Stable acc. to ISO 4892-2/A
- Cables complied to UL2464
- Rated Voltage 300 V or (600V as option only)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------|------------------|
| • Dielectric Strength: | 2.0kV dc @ 1 min |
| • Test voltage core/screen: | 1.k0V dc @ 1 min |
| • Insulation resistant: | > 100 MΩ/km |



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UNSHIELDED COMMUNICATION CABLES

UL 2464

Order Part Number:

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Style
EMC-CU-0222	BC/PVC/PVCFR 2x22AWG	4,20	Grey	500M	UL 2464
EMC-CU-0322	BC/PVC/PVCFR 3x22AWG	4.90	Grey	500M	UL 2464
EMC-CU-0422	BC/PVC/PVCFR 4x22AWG	5.50	Grey	500M	UL 2464
EMC-CU-0522	BC/PVC/PVCFR 5x22AWG	5.80	Grey	500M	UL 2464
EMC-CU-0622	BC/PVC/PVCFR 6x22AWG	6.10	Grey	500M	UL 2464
EMC-CU-0722	BC/PVC/PVCFR 7x22AWG	6.50	Grey	500M	UL 2464
EMC-CU-0822	BC/PVC/PVCFR 8x22AWG	7.10	Grey	500M	UL 2464
EMC-CU-0220	BC/PVC/PVCFR 2x20AWG	4,70	Grey	500M	UL 2464
EMC-CU-0320	BC/PVC/PVCFR 3x20AWG	5.30	Grey	500M	UL 2464
EMC-CU-0420	BC/PVC/PVCFR 4x20AWG	6.00	Grey	500M	UL 2464
EMC-CU-0520	BC/PVC/PVCFR 5x20AWG	6.30	Grey	500M	UL 2464
EMC-CU-0620	BC/PVC/PVCFR 6x20AWG	6.50	Grey	500M	UL 2464
EMC-CU-0720	BC/PVC/PVCFR 7x20AWG	6.90	Grey	500M	UL 2464
EMC-CU-0820	BC/PVC/PVCFR 8x20AWG	7.30	Grey	500M	UL 2464
EMC-CU-0218	BC/PVC/PVCFR 2x18AWG	5,40	Grey	500M	UL 2464
EMC-CU-0318	BC/PVC/PVCFR 3x18AWG	6.20	Grey	500M	UL 2464
EMC-CU-0418	BC/PVC/PVCFR 4x18AWG	7.30	Grey	500M	UL 2464
EMC-CU-0518	BC/PVC/PVCFR 5x18AWG	7.80	Grey	500M	UL 2464
EMC-CU-0618	BC/PVC/PVCFR 6x18AWG	8.10	Grey	500M	UL 2464
EMC-CU-0718	BC/PVC/PVCFR 7x18AWG	8.50	Grey	500M	UL 2464
EMC-CU-0818	BC/PVC/PVCFR 8x18AWG	9.10	Grey	500M	UL 2464
EMC-CU-0216	BC/PVC/PVCFR 2x16AWG	6,10	Grey	500M	UL 2464
EMC-CU-0316	BC/PVC/PVCFR 3x16AWG	6.40	Grey	500M	UL 2464
EMC-CU-0416	BC/PVC/PVCFR 4x16AWG	7.10	Grey	500M	UL 2464
EMC-CU-0516	BC/PVC/PVCFR 5x16AWG	7.50	Grey	500M	UL 2464
EMC-CU-0716	BC/PVC/PVCFR 7x16AWG	8.10	Grey	500M	UL 2464

□ "EMC-CU-0416" : ESCAB Multi-Core Bare copper 04x16AWG Style UL2464

Electrical Characteristics:

Conductor DC resistance (ohm/km)	Voltage	Type
52,5	300V	22AWG
37,4	300V	20AWG
23,5	300V	18AWG
14,9	300V	16AWG

*600V available with requirement only

Color code Characteristics:

No. of Cond.	Color	Color	No. of Cond.	Color	Color
1	Black	Black	7	White/Black	
2	Red	White or Transparent	8	Red/Black	
3	Green	Red	9	Green/Black	
4	White	Green	10	Orange/Black	
5	Brown	Orange	11	Blue/Black	
6	Blue	Blue	12	Black/White	

HOME & BUILDING AUTOMATION CABLES

UNSHIELDED COMMUNICATION CABLES

STYLE UL2092 300V | 600V

Construction:

- Conductor: Stranded Tinned Copper
- Insulation: High Density Polyethylene (HDPE) UL2092
- Formation: Color cores
- Core stranding together
- Screen: none screening
- Outer sheath: Grey color UV resistance PVC-FR Flame retardant (UL)CMH.

Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more.
- Used in building management installations for use in BEMS/BMS/HVAC Current Loop LAN Input/Output Wiring applications.
- A range of un-shielded single pair and multi-core cables for indoor use in instrumentation, data and audio applications where protection against electrical interference is required. The insulation used has lower signal loss.
- UL2092 complies with European Directive 2015/863/EU and 2011/65/EU, the restriction of use of certain hazardous substances in electrical and electronic equipment.

Standard:

- Flame retardant: IEC 60332-1-2, IEC 60332-2, (UL)CMH - UL1581
- UV Stable acc. to ISO 4892-2/A
- Cables complied to UL2092
- Rated Voltage 300 V or (600V as option only)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------|------------------|
| • Capacitance (core/core) | 70 ~ 120pF/m |
| • Dielectric Strength: | 2.0kV dc @ 1 min |
| • Test voltage core/screen: | 1.k0V dc @ 1 min |
| • Inductance: | 0.56 uH/m |
| • Insulation resistant: | > 100 MΩ/km |



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UNSHIELDED COMMUNICATION CABLES

UL 2092

Order Part Number:

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Style
EMC-TUY-0222	TC/PE/PVCFR 2x22AWG	4,20	Grey	500M	UL 2092
EMC-TUY-0322	TC/PE/PVCFR 3x22AWG	4.90	Grey	500M	UL 2092
EMC-TUY-0422	TC/PE/PVCFR 4x22AWG	5.50	Grey	500M	UL 2092
EMC-TUY-0522	TC/PE/PVCFR 5x22AWG	5.80	Grey	500M	UL 2092
EMC-TUY-0622	TC/PE/PVCFR 6x22AWG	6.10	Grey	500M	UL 2092
EMC-TUY-0722	TC/PE/PVCFR 7x22AWG	6.50	Grey	500M	UL 2092
EMC-TUY-0822	TC/PE/PVCFR 8x22AWG	7.10	Grey	500M	UL 2092
EMC-TUY-0220	TC/PE/PVCFR 2x20AWG	4,70	Grey	500M	UL 2092
EMC-TUY-0320	TC/PE/PVCFR 3x20AWG	5.30	Grey	500M	UL 2092
EMC-TUY-0420	TC/PE/PVCFR 4x20AWG	6.00	Grey	500M	UL 2092
EMC-TUY-0520	TC/PE/PVCFR 5x20AWG	6.30	Grey	500M	UL 2092
EMC-TUY-0620	TC/PE/PVCFR 6x20AWG	6.50	Grey	500M	UL 2092
EMC-TUY-0720	TC/PE/PVCFR 7x20AWG	6.90	Grey	500M	UL 2092
EMC-TUY-0820	TC/PE/PVCFR 8x20AWG	7.30	Grey	500M	UL 2092
EMC-TUY-0218	TC/PE/PVCFR 2x18AWG	5,40	Grey	500M	UL 2092
EMC-TUY-0318	TC/PE/PVCFR 3x18AWG	6.20	Grey	500M	UL 2092
EMC-TUY-0418	TC/PE/PVCFR 4x18AWG	7.30	Grey	500M	UL 2092
EMC-TUY-0518	TC/PE/PVCFR 5x18AWG	7.80	Grey	500M	UL 2092
EMC-TUY-0618	TC/PE/PVCFR 6x18AWG	8.10	Grey	500M	UL 2092
EMC-TUY-0718	TC/PE/PVCFR 7x18AWG	8.50	Grey	500M	UL 2092
EMC-TUY-0818	TC/PE/PVCFR 8x18AWG	9.10	Grey	500M	UL 2092
EMC-TUY-0216	TC/PE/PVCFR 2x16AWG	7,30	Grey	500M	UL 2092
EMC-TUY-0316	TC/PE/PVCFR 3x16AWG	7.70	Grey	500M	UL 2092
EMC-TUY-0416	TC/PE/PVCFR 4x16AWG	8.10	Grey	500M	UL 2092
EMC-TUY-0516	TC/PE/PVCFR 5x16AWG	7.50	Grey	500M	UL 2092
EMC-TUY-0716	TC/PE/PVCFR 7x16AWG	8.10	Grey	500M	UL 2092
EMC-TUY-0214	TC/PE/PVCFR 2x14AWG	7.81	Grey	500M	UL 2092
EMC-TUY-0314	TC/PE/PVCFR 3x14AWG	8.50	Grey	500M	UL 2092
EMC-TUY-0414	TC/PE/PVCFR 4x14AWG	8.90	Grey	500M	UL 2092

□ "EMC-TUY-0416" : ESCAB Multi-Core TC/PE/PVCFR (UL)CMH 04x16AWG Style UL2092

Electrical Characteristics:

Conductor DC resistance (ohm/km)	Voltage	Type
52,5	300V	22AWG
37,4	300V	20AWG
23,5	300V	18AWG
14,9	300V	16AWG

*600V available with requirement only

Color code Characteristics:

No. of Cond.	Color	Color	No. of Cond.	Color	Color
1	Black	Black	7	White/Black	
2	Red	White or Transparent	8	Red/Black	
3	Green	Red	9	Green/Black	
4	White	Green	10	Orange/Black	
5	Brown	Orange	11	Blue/Black	
6	Blue	Blue	12	Black/White	

HOME & BUILDING AUTOMATION CABLES

SHIELDED MULTI-CORES UL/CSA

STYLE UL 2095 | 300V | 600V

Construction:

- Conductor: Stranded Tinned Copper
- Insulation: PVC - UL2095
- Formation: Black/Natural
- Core stranding: Core twisted to pairs
- Screen: Overall Aluminium/Polyester tape + Tinned copper wire
- Outer sheath: Grey color UV resistance PVC-FR Flame retardant. (UL)CMH



Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, security systems, fire detection and many more.
- Used in building management installations for use in BEMS/BMS/HVAC Current Loop LAN Input/Output Wiring applications.
- A range of shielded single pair and multi-core cables for indoor use in instrumentation, data and audio applications where protection against electrical interference is required. The insulation used has lower signal loss.

Standard:

- Flame retardant: IEC 60332-1-2, IEC 60332-2, (UL)CMH-UL1581
- UV Stable acc. to ISO 4892-2/A
- Cables complied to UL2095
- Rated Voltage 300 V or (600V as option only)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------|------------------|
| • Capacitance (core/core) | 70 ~ 120pF/m |
| • Capacitance (core/screen) | 120 ~ 220pF/m |
| • Dielectric Strength: | 2.0kV dc @ 1 min |
| • Test voltage core/screen: | 1.k0V dc @ 1 min |
| • Inductance: | 0.56 uH/m |
| • Insulation resistant: | > 100 MΩ/km |

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SHIELDED MULTI-CORES UL/CSA

STYLE UL 2095

Order Part Number:

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Cable Weight (Kg/Km)
E02-TSY-0222	TC/PVC/OS/PVCFR 2x22AWG	4,20	Grey	500M	31
E02-TSY-0220	TC/PVC/OS/PVCFR 2x20AWG	4,70	Grey	500M	41
E02-TSY-0218	TC/PVC/OS/PVCFR 2x18AWG	5,40	Grey	500M	48
E02-TSY-0216	TC/PVC/OS/PVCFR 2x16AWG	6,10	Grey	500M	68
E02-TSY-0214	TC/PVC/OS/PVCFR 2x14AWG	9,90	Grey	500M	68
E02-TSY-0322	TC/PVC/OS/PVCFR 3x22AWG	3,80	Grey	500M	36
E02-TSY-0320	TC/PVC/OS/PVCFR 3x20AWG	4,70	Grey	500M	49
E02-TSY-0318	TC/PVC/OS/PVCFR 3x18AWG	5,70	Grey	500M	63
E02-TSY-0316	TC/PVC/OS/PVCFR 3x16AWG	6,40	Grey	500M	89
E02-TSY-0314	TC/PVC/OS/PVCFR 3x14AWG	11,20	Grey	500M	89
E02-TSY-0422	TC/PVC/OS/PVCFR 4x22AWG	5,10	Grey	500M	42
E02-TSY-0420	TC/PVC/OS/PVCFR 4x20AWG	5,50	Grey	500M	58
E02-TSY-0418	TC/PVC/OS/PVCFR 4x18AWG	6,30	Grey	500M	78
E02-TSY-0416	TC/PVC/OS/PVCFR 4x16AWG	6,80	Grey	500M	111
E02-TSY-0414	TC/PVC/OS/PVCFR 4x14AWG	12,90	Grey	500M	147

□ "E01-TSY-0416" : ESCAB Multi-Core Tinned Copper Shielded 04x16AWG Style UL2095

Electrical Characteristics:

Capacitance (core/core)	Capacitance (core/screen)	Conductor DC resistance	Impedance	P.N	Voltage
80	150	54,7	< 70	E02-TSY-0222	300V
90	160	37,4	< 70	E02-TSY-0220	300V
100	150	23,5	< 70	E02-TSY-0218	300V
80	150	14,7	< 70	E02-TSY-0216	300V
130	200	9,15	< 70	E02-TSY-0214	600V
80	160	54,7	< 70	E02-TSY-0322	300V
100	200	37,4	< 70	E02-TSY-0320	300V
80	140	23,5	< 70	E02-TSY-0318	300V
90	170	14,7	< 70	E02-TSY-0316	300V
130	220	9,15	< 70	E02-TSY-0314	600V
70	160	54,7	< 70	E02-TSY-0422	300V
70	120	37,4	< 70	E02-TSY-0420	300V
80	130	23,5	< 70	E02-TSY-0418	300V
120	130	14,7	< 70	E02-TSY-0416	300V
130	240	9,15	< 70	E02-TSY-0414	600V

Color code Characteristics:

No. of Cond.	Color	Color	No. of Cond.	Color	Color
1	Black	Black	7	White/Black	
2	Red	White or Transparent	8	Red/Black	
3	Green	Red	9	Green/Black	
4	White	Green	10	Orange/Black	
5	Brown	Orange	11	Blue/Black	
6	Blue	Blue	12	Black/White	

HOME & BUILDING AUTOMATION CABLES

COAXIAL CABLE RG6 CCS DOU-SHIELDED 75Ω



Application	Technical Description	
▫ Transmission Video/Audio signal	Impedance	75+/-3Ω
▫ CATV, MATV systems,...	Capacitance	53 pF/m
▫ Satellite systems,...	Velocity of Propagation	0.82
▫ Building management systems,	Test Voltage(50Hz)	3kV
▫ Outdoor use only with UV protection	Maximum operation voltage	1.3kV
	Insulation Resistance	>2000 MΩ/Km
	Temperature Range	Fixed: -30°C.....+70°C
	Min. Bending Radius	70 mm

Cable Construction

Conductor	∅ 1.02 mm Copper Clad Steel Wire
Insulation	∅ 4.63 mm Physical Foamed Polyethylene
1.Screen	Sealed Al-Pes Foil Coverage rate 100%
2.Screen	Aluminium Wire Braiding 62% Coverage Rate
3.Screen	None
Outer sheath	∅ 7.00 mm PVC or LSHF White or Black
Cable Weight	44 (Kg/Km)
Standard packing	305m/Reel

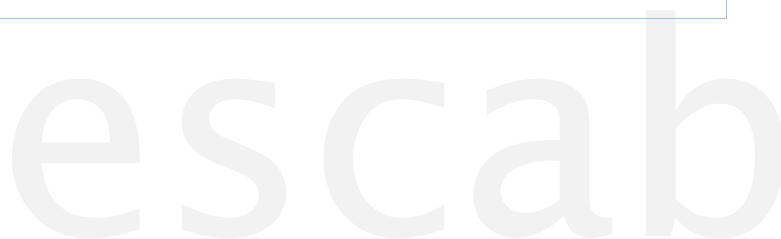
Technical Information

Attenuation @ 20°C

MHz	230	470	860	1000	1500	2000	2400	3000
Max. dB/100m	13	18.5	25.7	27.7	34.5	40.4	44.5	49.6

Standards

Cables	IEC 60096-1, EN 50117, IEC 60096-3	
Flame Test	IEC 60332-1	
RoHs	Confirmed	
Product order ref	Economic	ERG6-EC-3001 PVC Outer sheath
version		ERG6-EC-3901 LSHF Outer sheath



HOME & BUILDING AUTOMATION CABLES

COAXIAL CABLE RG11 CCS DOU-SHIELDED 75Ω



Application	Technical Description	
▫ Transmission Video/Audio signal	Impedance	75+/-3Ω
▫ CATV, MATV systems, ...	Capacitance	53 pF/m
▫ Satellite systems, ...	Velocity of Propagation	0.82
▫ Building management systems,	Test Voltage(50Hz)	5kV
▫ Outdoor use only with UV protection	Maximum operation voltage	2kV
	Insulation Resistance	>2000 MΩ/Km
	Temperature Range	Fixed: -30°C.....+70°C
	Min. Bending Radius	70 mm
	Conductor resistant (DC)	Approx. ... 8.8 Ω/Km

Cable Construction

Conductor	∅ 1.63 mm Electrolytic Annealed Copper
Insulation	∅ 7.10 mm Physical Foamed Polyethylene
1.Screen	Sealed Al-Pes Foil Coverage rate 100%
2.Screen	Aluminium Wire Braiding 62% Coverage Rate
Outer sheath	∅ 10.20 mm PVC-FR White or Black
Cable Weight	102 (Kg/Km)
Standard packing	305m/Reel

Technical Information

Attenuation @ 20°C

MHz	230	470	860	1000	1500	2000	2400	3000
Max. dB/100m	6.5	9.3	13	14.2	17.8	20.6	22.9	26.2

Standards

Cables	IEC 60096-1, EN 50117, IEC 60096-3	
Flame Test	IEC 60332-1, VDE 0482-265-2-1	
RoHs	Confirmed	
Product order ref	E1101-1104	PVC-FR Outer sheath
	E1501-9104	LSHF Outer sheath



HOME & BUILDING AUTOMATION CABLES

LON-WORK CABLE SINGLE-PAIR | MULTI-PAIR

(LOCAL OPERATING NETWORK)

Construction:

- Conductor: Stranded Tinned Copper.
- Insulation: PE, PVC
- Formation: 02 core twisted (White, Black)
- Outer sheath:
 - LSZH Low Smoke Zero Halogen (UL)CMP
 - PVC-FR Flame retardant (UL)CMH



Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more..

Standard:

- Flame retardant: IEC 60332-1, IEC 60332-2, (UL)CMH-UL1581
- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034
- Rated Voltage 300 V (or 600V as option)
- Cables complied to UL2092, (UL2095 as customize)

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +80°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- Capacitance: 70pF/m
- Dielectric Strength: 2.0kV dc @ 1 min
- Inductance: 0.56 uH/m
- Peak Operating Voltage: 300V rms

ESCAB Order No.	Cable Type	Conductor Resistant (Ω/km)	Outer Diameter (mm)	Color	Packing Standard (per reel)	Original
ELW-UN-0120Y	ESCAB LONWORK 1x2x20AWG PVC	37.4	4,70	Grey	500M	Asia/EC
ELW-UN-0118Y	ESCAB LONWORK 1x2x18AWG PVC	23.5	5,20	Grey	500M	Asia/EC
ELW-UN-0116Y	ESCAB LONWORK 1x2x16AWG PVC	14.9	7,20	Grey	500M	Asia/EC
ELW-UN-0114Y	ESCAB LONWORK 1x2x14AWG PVC	9.15	7,80	Grey	500M	Asia/EC
ELW-UN-0120H	ESCAB LONWORK 1x2x20AWG LSZH	37.4	4,70	Grey	500M	Asia/EC
ELW-UN-0118H	ESCAB LONWORK 1x2x18AWG LSZH	23.5	5,20	Grey	500M	Asia/EC
ELW-UN-0116H	ESCAB LONWORK 1x2x16AWG LSZH	14.9	7,20	Grey	500M	Asia/EC
ELW-UN-0114H	ESCAB LONWORK 1x2x14AWG LSZH	9.15	7,80	Grey	500M	Asia/EC
ELW-UN-0220Y	ESCAB LONWORK 2x2x20AWG PVC	37.4	6,20	Grey	500M	Asia/EC
ELW-UN-0218Y	ESCAB LONWORK 2x2x18AWG PVC	23.5	6,70	Grey	500M	Asia/EC
ELW-UN-0220H	ESCAB LONWORK 2x2x20AWG LSZH	37.4	6,20	Grey	500M	Asia/EC
ELW-UN-0218H	ESCAB LONWORK 2x2x18AWG LSZH	23.5	6,70	Grey	500M	Asia/EC
ELW-UN-0320Y	ESCAB LONWORK 3x2x20AWG PVC	37.4	6,90	Grey	500M	Asia/EC
ELW-UN-0318Y	ESCAB LONWORK 3x2x18AWG PVC	23.5	7,60	Grey	500M	Asia/EC
ELW-UN-0320H	ESCAB LONWORK 3x2x20AWG LSZH	37.4	6,90	Grey	500M	Asia/EC
ELW-UN-0318H	ESCAB LONWORK 3x2x18AWG LSZH	23.5	7,60	Grey	500M	Asia/EC

HOME & BUILDING AUTOMATION CABLES

LON-WORK DUCT GRADE (LOCAL OPERATING NETWORK)



Construction:

- Conductor: Stranded Tinned Copper (19/0.3mm) 16AWG
- Insulation: SR-PVC
- Formation: 02 core twisted (White, Black)
- Outer sheath:
PE High Density Polyethylene.

Application:

- For open data communication in building automation, controls & building management, motorway lighting, building lighting control, HVAC systems, , security systems, fire detection and many more..

Standard:

- Flame retardant: IEC 60332-1, IEC 60332-2
- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- Halogen Free acc. to IEC 60754-1
- Smoke Density acc. to IEC 61034
- Rated Voltage 600 V

Technical Properties (@ 20°C)

- Temperature: -30°C ~ +70°C
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- Capacitance: 110pF/m
- Dielectric Strength: 2.0kV dc @ 1 min
- Inductance: 0.56 uH/m
- Peak Operating Voltage: 600V rms

ESCAB Order No.	Cable Type	Conductor Resistant (Ω/km)	Outer Diameter (mm)	Color	Packing Standard (per reel)	Original
ELW-ST-0116PE	ESCAB LONWORK DUCT GRADE 1x2x16AWG PE Black	14.9	7,40	Black	500M	ASIA/EC
ELW-ST-0118PE	ESCAB LONWORK DUCT GRADE 1x2x18AWG PE Black	23.5	5,60	Black	500M	ASIA/EC
ELW-ST-0114PE	ESCAB LONWORK DUCT GRADE 1x2x14AWG PE Black	9.15	8,40	Black	500M	ASIA/EC



HOME & BUILDING AUTOMATION CABLES

EIB/KNX Bus Cable 2 x 2 x 0.8



Construction:

- Conductor: Electronic solid copper $\varnothing 0.8\text{mm}$
- Insulation: Polyvinylchloride (PVC).
- Formation: 4 wires twisted to a quad (Red, Yellow, White, Black)
- Tape: Plastic tape overlapped
- Drain wire: Solid bare copper wire $\varnothing 0.4\text{mm}$
- Screen: Aluminate foil overlapped. 100% coverage
- Outer sheath:
 - LSZH Low Smoke Zero Halogen
 - PVC-FR Flame retardant



Application:

- EIB Cable PVC for building system technology to control lighting, heating, air-conditioning, ventilation, energy management, blinds, time management and locking systems. Not to be layed in ground.

Standard:

- Smoke Density: IEC 61034-1+2
- Corrosive Gases Measurement: IEC 60754-2
- Flame retardant: IEC 60332-1, IEC 60332-2

Technical Properties (@ 20°C)

- Temperature: $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- Conductor Loop Resistance: Max 73.2 Ohm/km
- Conductor Resistance Unbalance: Max 2%
- Dielectric Strength: 1.0kV dc or 0.7kV ac for 1 min
- Insulation Resistance: $>100\text{M}\Omega$
- Operation Capacitance: Max 100 pF/m
- Capacitance unbalance: Max 200 pF/100m
- Test Voltage Core/Shielded: 4 kV 50Hz @1Min.
- Peak Operating Voltage: 300V rms

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Original
EB-KNX-0202Y	ESCAB EIB Bus 2x2x0.8mm PVC	6,10	Green	500M	Asia/EC
EB-KNX-0202H	ESCAB EIB Bus 2x2x0.8mm LSZH	6,10	Green	500M	Asia/EC



HOME & BUILDING AUTOMATION CABLES

EIB/KNX Bus Cable 1 x 2 x 0.8



Construction:

- Conductor: Electronic solid copper $\varnothing 0.8\text{mm}$
- Insulation: PE.
- Formation: 2 wires twisted to a pair (Red, Black)
- Tape: Plastic tape overlapped
- Drain wire: Solid bare copper wire
- Screen: Aluminate foil overlapped. 100% coverage
- Outer sheath:
 - LSZH Low Smoke Zero Halogen
 - PVC-FR Flame retardant

Application:

- EIB Cable PVC for building system technology to control lighting, heating, air-conditioning, ventilation, energy management, blinds, time management and locking systems. Not to be layed in ground.

Standard:

- Smoke Density: IEC 61034-1+2
- Corrosive Gases Measurement: IEC 60754-2
- Flame retardant: IEC 60332-1, IEC 60332-2

Technical Properties (@ 20°C)

- Temperature: $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Minimum Bending Radius: 8 x Diameter

Electrical Characteristics (@20°C):

- | | |
|-----------------------------------|--------------------------------|
| • Conductor Loop Resistance: | Max 73.2 Ohm/km |
| • Conductor Resistance Unbalance: | Max 2% |
| • Dielectric Strength: | 1.0kV dc or 0.7kV ac for 1 min |
| • Insulation Resistance: | >100M Ω m |
| • Operation Capacitance: | Max 100 pF/m |
| • Capacitance unbalance @800Hz: | Max 300 pF/100m |
| • Test Voltage Core/Shielded: | 4 kV 50Hz @1Min. |
| • Peak Operating Voltage: | 300V rms |

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Color	Packing Standard (per reel)	Original
EB-KNX-0102Y	ESCAB EIB Bus 1x2x0.8mm PVC	5,30	Grey	500M	Asia/EC
EB-KNX-0102H	ESCAB EIB Bus 1x2x0.8mm LSZH	5,30	Green	500M	Asia/EC



FIRE RESISTANT CONTROL CABLES

IEC 60331-21 (FE180) ; BS6387 CATC ;

EMC SHIELDING



ESCAB FRC-OS CU/FR/OS/LSHF 300/500V LSHF

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage (Uo/U)	300/500V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	2.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Insulation	Fire resistant insulation compound			
Color Cores	Brown White & DIN 47100 (more than 05 cores White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Fire barrier	Fire resistant layer			
EMC Shielding	AL foil overall + stranded tinned copper drain wire			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	300V	
1.00 mm ²	(18AWG)	19.50	300V	
1.50 mm ²	(16AWG)	13.30	300/500V	
2.50 mm ²	(14AWG)	8.10	300/500V	

escab

Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, BS 6387 CAT B, EN 50200 PH120
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
FR6387-OS-0208	2x0.75	5.60	18	42
FR6387-OS-0308	3x0.75	6.00	24	55
FR6387-OS-0408	4x0.75	6.80	31	70
FR6387-OS-0508	5x0.75	7.50	37	85
FR6387-OS-0708	7x0.75	8.00	50	110
FR6387-OS-1008	10x0.75	10.70	69	165
FR6387-OS-0110	1x1.0	3.70	12	30
FR6387-OS-0210	2x1.0	6.00	23	50
FR6387-OS-0310	3x1.0	6.20	31	65
FR6387-OS-0410	4x1.0	7.00	40	81
FR6387-OS-0510	5x1.0	8.00	51	100
FR6387-OS-0710	7x1.0	8.50	67	130
FR6387-OS-1010	10x1.0	11.20	94	195
FR6387-OS-0115	1x1.5	4.20	16	40
FR6387-OS-0215	2x1.5	7.20	32	70
FR6387-OS-0315	3x1.5	7.60	45	92
FR6387-OS-0415	4x1.5	8.20	58	114
FR6387-OS-0515	5x1.5	10.00	71	150
FR6387-OS-0715	7x1.5	10.50	97	195
FR6387-OS-1015	10x1.5	13.20	137	280
FR6387-OS-0125	1x2.5	4.80	25	65
FR6387-OS-0225	2x2.5	8.10	51	100
FR6387-OS-0325	3x2.5	8.70	72	130
FR6387-OS-0425	4x2.5	10.20	95	180



FIRE RESISTANT CONTROL CABLES

IEC 60331-21 (FE180) ; BS6387 CATC ;

UNSHIELDED



FRC-UN CU/FR/LSHF 300/500V LSHF

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage	300/500V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	2.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Insulation	Fire resistant insulation compound			
Color Cores	Brown White & DIN 47100 (more than 05 cores White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Fire barrier	Fire resistant layer			
EMC Shielding	None			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	300V	
1.00 mm ²	(18AWG)	19.50	300V	
1.50 mm ²	(16AWG)	13.30	300/500V	
2.50 mm ²	(14AWG)	8.10	300/500V	
4.00 mm ²	(12AWG)	4.97	600/1000V	
6.00 mm ²	(10AWG)	3.33	600/1000V	

escab

Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, BS 6387 CAT B, EN 50200 PH120
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
FR6387-UN-0208	2x0.75	5.50	18	42
FR6387-UN-0308	3x0.75	6.00	24	55
FR6387-UN-0408	4x0.75	6.70	31	70
FR6387-UN-0508	5x0.75	7.40	37	85
FR6387-UN-0708	7x0.75	8.00	50	110
FR6387-UN-1008	10x0.75	10.60	69	165
FR6387-UN-0210	2x1.0	6.00	23	50
FR6387-UN-0310	3x1.0	6.10	31	65
FR6387-UN-0410	4x1.0	6.90	40	81
FR6387-UN-0510	5x1.0	7.90	51	100
FR6387-UN-0710	7x1.0	8.40	67	130
FR6387-UN-1010	10x1.0	11.10	94	195
FR6387-UN-0215	2x1.5	7.10	32	70
FR6387-UN-0315	3x1.5	7.50	45	92
FR6387-UN-0415	4x1.5	8.10	58	114
FR6387-UN-0515	5x1.5	10.00	71	150
FR6387-UN-0715	7x1.5	10.40	97	195
FR6387-UN-1015	10x1.5	13.10	137	280
FR6387-UN-0225	2x2.5	8.00	48	90
FR6387-UN-0325	3x2.5	8.60	72	120
FR6387-UN-0425	4x2.5	10.00	95	170
FR6387-UN-0240	2x4.0	12.30	76.8	188
FR6387-UN-0340	3x4.0	13.20	115	240
FR6387-UN-0440	4x4.0	14.50	152	298
FR6387-UN-0260	2x6.0	13.70	112	275
FR6387-UN-0360	3x6.0	14.60	170	349
FR6387-UN-0460	4x6.0	16.80	225	435

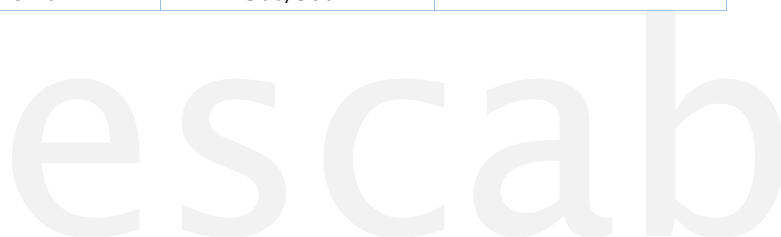
FIRE RESISTANT CONTROL CABLES 300/500V

BS6387 CAT C, W, Z

EMC SHIELDING

ESCAB FRC-OS CU/FR/LSZH/OS/LSHF 300/500V BS6387CWZ

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage (U _o /U)	300/500V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	2.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Fire barrier	Fire resistant layer (PMTGF type)			
Color Cores	Red White (more then 5 core : White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Insulation	LSZH Low Smoke Halogen Free			
EMC Shielding	AL foil overall + stranded tinned copper drain wire			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	300V	
1.00 mm ²	(18AWG)	19.50	300V	
1.50 mm ²	(16AWG)	13.30	300/500V	
2.50 mm ²	(14AWG)	8.10	300/500V	



Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, W, Z
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4, IEC 60332-3-22
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
41FR05-0208	2x0.75	7.60	18	42
41FR05-0308	3x0.75	8.00	24	55
41FR05-0408	4x0.75	8.80	31	70
41FR05-0508	5x0.75	9.50	37	85
41FR05-0708	7x0.75	10.00	50	110
41FR05-1008	10x0.75	12.70	69	165
41FR05-0110	1x1.0	5.70	12	30
41FR05-0210	2x1.0	8.00	23	50
41FR05-0310	3x1.0	8.20	31	65
41FR05-0410	4x1.0	9.00	40	81
41FR05-0510	5x1.0	10.00	51	100
41FR05-0710	7x1.0	10.50	67	130
41FR05-1010	10x1.0	13.20	94	195
41FR05-0115	1x1.5	4.20	16	40
41FR05-0215	2x1.5	9.30	32	70
41FR05-0315	3x1.5	9.60	45	92
41FR05-0415	4x1.5	10.20	58	114
41FR05-0515	5x1.5	12.00	71	150
41FR05-0715	7x1.5	12.50	97	195
41FR05-1015	10x1.5	15.20	137	280
41FR05-0125	1x2.5	4.80	25	65
41FR05-0225	2x2.5	10.80	51	100
41FR05-0325	3x2.5	11.60	72	130
41FR05-0425	4x2.5	13.20	95	180



FIRE RESISTANT CONTROL CABLES 300/500V

BS6387 CAT C, W, Z

UNSHIELDED

ESCAB FRC-UN CU/FR/LSZH/LSHF 300/500V BS6387CWZ

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage (U _o /U)	300/500V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	2.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Fire barrier	Fire resistant layer (PMTGF type)			
Color Cores	Red White (more then 5 core : White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Insulation	LSZH Low Smoke Halogen Free			
EMC Shielding	None			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	300V	
1.00 mm ²	(18AWG)	19.50	300V	
1.50 mm ²	(16AWG)	13.30	300/500V	
2.50 mm ²	(14AWG)	8.10	300/500V	



Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, W, Z
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4, IEC 60332-3-22
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
40FR05-0208	2x0.75	7.60	18	42
40FR05-0308	3x0.75	8.00	24	55
40FR05-0408	4x0.75	8.80	31	70
40FR05-0508	5x0.75	9.50	37	85
40FR05-0708	7x0.75	10.00	50	110
40FR05-1008	10x0.75	12.70	69	165
40FR05-0110	1x1.0	5.70	12	30
40FR05-0210	2x1.0	8.00	23	50
40FR05-0310	3x1.0	8.20	31	65
40FR05-0410	4x1.0	9.00	40	81
40FR05-0510	5x1.0	10.00	51	100
40FR05-0710	7x1.0	10.50	67	130
40FR05-1010	10x1.0	13.20	94	195
40FR05-0115	1x1.5	4.20	16	40
40FR05-0215	2x1.5	9.30	32	70
40FR05-0315	3x1.5	9.60	45	92
40FR05-0415	4x1.5	10.20	58	114
40FR05-0515	5x1.5	12.00	71	150
40FR05-0715	7x1.5	12.50	97	195
40FR05-1015	10x1.5	15.20	137	280
40FR05-0125	1x2.5	4.80	25	65
40FR05-0225	2x2.5	10.80	51	100
40FR05-0325	3x2.5	11.60	72	130
40FR05-0425	4x2.5	13.20	95	180



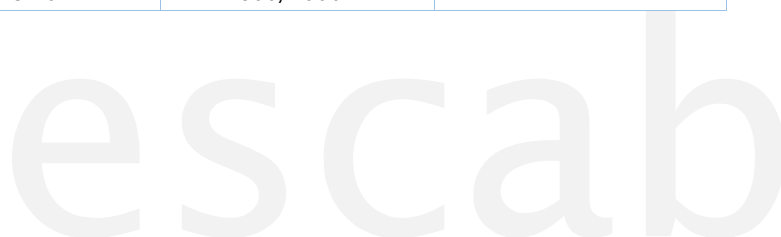
FIRE RESISTANT CONTROL CABLES 0,6/1KV

BS6387 CAT C, W, Z

EMC SHIELDING

ESCAB FRC-OS CU/FR/LSZH/OS/LSHF 0.6/1KV BS6387CWZ

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage (U _o /U)	600/1000V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	3.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Fire barrier	Fire resistant layer (PMTGF type)			
Color Cores	Red White (more then 5 core : White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Insulation	LSZH Low Smoke Halogen Free			
EMC Shielding	AL foil overall + stranded tinned copper drain wire			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	500V	
1.00 mm ²	(18AWG)	19.50	500V	
1.50 mm ²	(16AWG)	13.30	600/1000V	
2.50 mm ²	(14AWG)	8.10	600/1000V	



Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, W, Z
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4, IEC 60332-3-22
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
51FR10-0208	2x0.75	8.60	18	49
51FR10-0308	3x0.75	9.00	24	65
51FR10-0408	4x0.75	9.80	31	81
51FR10-0508	5x0.75	10.50	37	97
51FR10-0708	7x0.75	11.00	50	127
51FR10-1008	10x0.75	13.70	69	188
51FR10-0110	1x1.0	6.70	12	33
51FR10-0210	2x1.0	9.00	23	58
51FR10-0310	3x1.0	9.20	31	74
51FR10-0410	4x1.0	10.00	40	93
51FR10-0510	5x1.0	11.00	51	116
51FR10-0710	7x1.0	11.50	67	149
51FR10-1010	10x1.0	14.20	94	231
51FR10-0115	1x1.5	5.20	16	43
51FR10-0215	2x1.5	10.30	32	81
51FR10-0315	3x1.5	10.60	45	107
51FR10-0415	4x1.5	11.20	58	133
51FR10-0515	5x1.5	13.00	71	173
51FR10-0715	7x1.5	13.50	97	234
51FR10-1015	10x1.5	16.20	137	325
51FR10-0125	1x2.5	5.80	25	68
51FR10-0225	2x2.5	11.80	51	114
51FR10-0325	3x2.5	12.60	72	151
51FR10-0425	4x2.5	14.20	95	213



FIRE RESISTANT CONTROL CABLES 0,6/1KV

BS6387 CAT C, W, Z

UN-SHIELDED

ESCAB FRC-UN CU/FR/LSZH/LSHF 0.6/1KV BS6387CWZ

Application		Technical Description		
▫ Fire alarm systems, power supply with resistant fire		Operation Voltage (U _o /U)	600/1000V	
▫ With large applications like: warning, emergency,...		Test Voltage(50Hz)	3.0kV	
Monitoring system, Fire fighting systems,...		Insulation Resistance	>200 (MΩ/Km)	
▫ Building automation systems,		Temperature Range	Fixed : -30°C ~ +90°C	
▫ Control, signal sensor communication...		Min. Bending Radius	Fixed 7.5 x Cable Diameter (mm)	
▫ Outdoor use only with UV protection		Inductance	0.65(mH/Km)	
Cable Construction				
Conductor	Stranded bare copper wires Class 5			
Fire barrier	Fire resistant layer (PMTGF type)			
Color Cores	Red White (more then 5 core : White core + Black numbers)			
Lay-up	Cores are twisted in layer			
Insulation	LSZH Low Smoke Halogen Free			
EMC Shielding	None			
Outer sheath	LSHF Low Smoke Halogen Free (EN50209-2) Red color RAL 3000			
Technical Information				
Cross section		Conductor Resistance (Ω/Km)	Operation Voltage	
0.75 mm ²	(20AWG)	26.00	500V	
1.00 mm ²	(18AWG)	19.50	500V	
1.50 mm ²	(16AWG)	13.30	600/1000V	
2.50 mm ²	(14AWG)	8.10	600/1000V	



Standards	
Cables	IEC/EN 50228
Fire Test	IEC 60331-21, BS 6387 CAT C, W, Z
Flame Test	IEC 60332-1, IEC 60332-3-24, EN 50266-2-4, IEC 60332-3-22
Smoke Density	IEC 61034-1/2
Corrosive Gas Measurement	IEC 60754-1/2, EN 50267
RoHs	Confirmed

Products information				
Order Ref	No. of cores x size (mm ²)	Cable Diameter (mm+/-10%)	Copper Weight (Kg/Km)	Cable Weight (Kg/Km+/-10%)
50FR10-0208	2x0.75	8.10	18	47
50FR10-0308	3x0.75	8.50	24	63
50FR10-0408	4x0.75	9.30	31	79
50FR10-0508	5x0.75	10.10	37	95
50FR10-0708	7x0.75	10.60	50	125
50FR10-1008	10x0.75	13.20	69	186
50FR10-0110	1x1.0	6.30	12	31
50FR10-0210	2x1.0	8.50	23	56
50FR10-0310	3x1.0	8.60	31	72
50FR10-0410	4x1.0	9.60	40	91
50FR10-0510	5x1.0	10.60	51	114
50FR10-0710	7x1.0	11.10	67	147
50FR10-1010	10x1.0	13.70	94	229
50FR10-0115	1x1.5	4.70	16	41
50FR10-0215	2x1.5	9.80	32	79
50FR10-0315	3x1.5	10.20	45	105
50FR10-0415	4x1.5	10.80	58	131
50FR10-0515	5x1.5	12.60	71	171
50FR10-0715	7x1.5	13.10	97	232
50FR10-1015	10x1.5	15.70	137	323
51FR10-0125	1x2.5	5.80	25	66
51FR10-0225	2x2.5	11.80	51	111
51FR10-0325	3x2.5	12.60	72	149
51FR10-0425	4x2.5	14.20	95	211



MULTICORE CONTROL CABLES

CONTROL MULTICORE PVC VDE

YSLY-JZ/OZ

Construction:

- Conductor: Flexible conductor complying with: IEC 60228 Class 5
- Insulation: PVC compound
- Core: Black numbered + Yellow/Green
- Identification: with VDE 0293
- Taping: Soft tape
- Outer sheath: PVC Compound Flame retardant IEC 60332-1 (Grey RAL7001)



Application:

- These types of cables are used in plant engineering and construction industrial machinery, , electronic control systems, air condition systems, power stations, engineering projects for control, vision and controlling purposes. These can be used in wet or dry indoor applications but for outdoor use, UV protected PVC must be used where the cable is exposed to sunlight.

Standard:

- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- References standards to IEC 60227

Technical Properties (@ 20°C)

- Temperature range: -30°C ~ +80°C
- Minimum Bending Radius: Installation 12.5 x Diameter ; Fixed 4 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 3000V
- Insulation resistance: ≥ 100 Mohm/km
- Operation voltage: ≤ 1.5mm² 300/500V ;
≥ 2.5mm² 450/750V ;
≥ 10mm² 600/1000V



ESCAB Order No.	Cable Type	Outer Diameter	Copper Weight	Approx. Cable Weight
		(mm)	(kg/km)	(per reel)
EC04 05 002	YSLY-OZ 2x0.50 300/500V	5,0	10	38
EC04 05 003	YSLY-JZ 3G0.50 300/500V	5,4	14	45
EC04 05 004	YSLY-JZ 4G0.50 300/500V	5,8	19	55
EC04 05 005	YSLY-JZ 5G0.50 300/500V	6,5	24	70
EC04 05 007	YSLY-JZ 7G0,50 300/500V	6,7	34	85
EC04 06 002	YSLY-JZ 2x0.75 300/500V	6,2	14	55
EC04 06 003	YSLY-JZ 3G0.75 300/500V	6,6	22	65
EC04 06 004	YSLY-JZ 4G0.75 300/500V	7,1	29	80
EC04 06 005	YSLY-JZ 5G0.75 300/500V	8,0	36	100
EC04 06 007	YSLY-JZ 7G0.75 300/500V	7,5	50	125
EC04 07 002	YSLY-OZ 2x1.0 300/500V	6,6	19	60
EC04 07 003	YSLY-JZ 3G1.0 300/500V	6,9	29	75
EC04 07 004	YSLY-JZ 4G1.0 300/500V	7,7	38	100
EC04 07 005	YSLY-JZ 5G1.0 300/500V	8,4	48	125
EC04 07 007	YSLY-JZ 7G1.0 300/500V	8,1	67	145

G = with protective conductor GN/YE ; X = without protective conductor

MULTICORE CONTROL CABLES

CONTROL MULTICORE PVC VDE

YSLY-JZ/OZ

ESCAB Order No.	Cable Type	Outer Diameter	Copper Weight	Approx. Cable Weight
		(mm)	(kg/km)	(per reel)
EC04 08 002	YSLY-OZ 2x1.5 300/500V	7,2	29	85
EC04 08 003	YSLY-JZ 3G1.5 300/500V	7,8	43	105
EC04 08 004	YSLY-JZ 4G1.5 300/500V	8,8	58	120
EC04 08 005	YSLY-JZ 5G1.5 300/500V	9,8	72	145
EC04 08 007	YSLY-JZ 7G1.5 300/500V	9,2	101	195
EC04 09 002	YSLY-OZ 2x2,5 450/750V	8,9	48	115
EC04 09 003	YSLY-JZ 3x2,5 450/750V	9,5	72	140
EC04 09 004	YSLY-JZ 4x2,5 450/750V	10,4	96	205
EC04 09 005	YSLY-JZ 5x2,5 450/750V	11,6	120	240
EC04 09 007	YSLY-JZ 7x2,5 450/750V	11,2	168	330
EC04 10 002	YSLY-OZ 2x4 450/750V	10,5	77	180
EC04 10 003	YSLY-JZ 3x4 450/750V	11,0	116	230
EC04 10 004	YSLY-JZ 4x4 450/750V	12,8	154	280
EC04 11 003	YSLY-JZ 3x6 450/750V	13,0	173	330
EC04 11 004	YSLY-JZ 4x6 450/750V	14,1	230	390
EC04 12 004	YSLY-JZ 4x10 600/1000V	18,1	384	725
EC04 13 004	YSLY-JZ 4x16 600/1000V	21,3	614	925
EC04 14 004	YSLY-JZ 4x25 600/1000V	26,4	960	1625
EC04 15 004	YSLY-JZ 4x35 600/1000V	29,8	1344	2130
EC04 16 004	YSLY-JZ 4x50 600/1000V	35,2	1920	2950
EC04 17 004	YSLY-JZ 4x70 600/1000V	39,7	2688	4080
EC04 18 004	YSLY-JZ 4x95 600/1000V	46,1	3648	5500
EC04 19 004	YSLY-JZ 4x120 600/1000V	53,0	4608	6950
EC04 20 004	YSLY-JZ 4x150 600/1000V	56,5	5760	7800
EC04 21 004	YSLY-JZ 4x185 600/1000V	59,8	7104	8200
EC04 22 004	YSLY-JZ 4x240 600/1000V	70,2	9210	10500

G = with protective conductor GN/YE ; X = without protective conductor

MULTICORE SCREENED CONTROL CABLES - PVC

CONTROL MULTICORE BRAIDING - VDE

YSLCY-JZ / OZ | YSLYCY-JZ / OZ

Construction:

- Conductor: Flexible conductor complying with: IEC 60228 Class 5, VDE 0295 Class 5
- Insulation: PVC compound
- Core: Black numbered + Yellow/Green
- Identification: with VDE 0293
- Taping: Soft tape
- Shielded: Tinned Copper Braiding
- Outer sheath: PVC Compound Flame retardant IEC 60332-1 (Grey RAL7001)
- UV resistant outer sheath.

Application:

- These PVC cables (screened) are used as a connection cables for measuring, monitoring and control connections in industrial machineries, electronic control systems, air condition systems, power stations, engineering projects for control, vision and measurement purposes. These can be used in wet or dry indoor applications. Screening protects the cable from the outer electrical effects.

Standard:

- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- References standards to IEC 60227.

Technical Properties (@ 20°C)

- Temperature range: -30°C ~ +80°C
- Minimum Bending Radius: Installation 12.5 x Diameter ; Fixed 4 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 2000V
- Insulation resistance: ≥ 100 M.ohm/km
- Operation voltage U₀/U: ≤ 1.5mm² 300/500V | YSLCY-JZ
- ≥ 2.5mm² 450/750V | YSLCY-JZ
- ≥ 10mm² 600/1000V | YSLYCY-JZ



ESCAB Order No.	Cable Type	Outer Diameter (mm)	Copper Weight (kg/km)	Approx. Cable Weight (per reel)
EC05 05 002	YSLCY-OZ 2x0.50 300/500V	4,9	32	65
EC05 05 003	YSLCY-JZ 3G0.50 300/500V	5,1	38	70
EC05 05 004	YSLCY-JZ 4G0.50 300/500V	5,8	45	90
EC05 05 005	YSLCY-JZ 5G0.50 300/500V	6,5	50	100
EC05 05 007	YSLCY-JZ 7G0.50 300/500V	7,1	70	125
EC05 06 002	YSLCY-JZ 2x0.75 300/500V	5,5	13	69
EC05 06 003	YSLCY-JZ 3G0.75 300/500V	5,7	19	79
EC05 06 004	YSLCY-JZ 4G0.75 300/500V	6,5	26	93
EC05 06 005	YSLCY-JZ 5G0.75 300/500V	7,1	32	116
EC05 06 007	YSLCY-JZ 7G0.75 300/500V	9,6	46	139
EC05 07 002	YSLCY-OZ 2x1.0 300/500V	5,9	17	77
EC05 07 003	YSLCY-JZ 3G1.0 300/500V	6,3	26	90
EC05 07 004	YSLCY-JZ 4G1.0 300/500V	7,0	35	105
EC05 07 005	YSLCY-JZ 5G1.0 300/500V	7,7	43	132
EC05 07 007	YSLCY-JZ 7G1.0 300/500V	8,4	61	160

G = with protective conductor GN/YE ; X = without protective conductor

MULTICORE SCREENED CONTROL CABLES - PVC

CONTROL MULTICORE BRAIDING - VDE

YSLCY-JZ / OZ | YSLYCY-JZ / OZ

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Copper Weight (kg/km)	Approx. Cable Weight (per reel)
EC05 08 002	YSLCY-OZ 2x1.5 300/500V	7,6	25	97
EC05 08 003	YSLCY-JZ 3G1.5 300/500V	7,4	37	118
EC05 08 004	YSLCY-JZ 4G1.5 300/500V	8,2	49	139
EC05 08 005	YSLCY-JZ 5G1.5 300/500V	9,1	61	173
EC05 08 007	YSLCY-JZ 7G1.5 300/500V	9,9	87	214
EC05 09 002	YSLCY-OZ 2x2.5 450/750V	8,1	41	129
EC05 09 003	YSLCY-JZ 3x2.5 450/750V	8,9	62	160
EC05 09 004	YSLCY-JZ 4x2.5 450/750V	9,7	82	204
EC05 09 005	YSLCY-JZ 5x2.5 450/750V	14,2	103	247
EC05 09 007	YSLCY-JZ 7x2.5 450/750V	11,0	144	317
EC05 10 004	YSLCY-JZ 4x4 450/750V	13,1	135	345
EC05 11 004	YSLCY-JZ 4x6 450/750V	15,3	317	482
EC05 12 004	YSLCY-JZ 4x10 600/1000V	18,8	552	731
EC05 13 004	YSLYCY-JZ 4x16 600/1000V	21,6	798	1392
EC05 14 004	YSLYCY-JZ 4x25 600/1000V	28,2	1159	1726
EC05 15 004	YSLYCY-JZ 4x35 600/1000V	31,0	1541	2202
EC05 16 004	YSLYCY-JZ 4x50 600/1000V	37,2	2339	3358
EC05 17 004	YSLYCY-JZ 4x70 600/1000V	41,8	3030	3710
EC05 18 004	YSLYCY-JZ 4x95 600/1000V	48,8	4051	5842
EC05 19 004	YSLYCY-JZ 4x120 600/1000V	52,6	5221	7501
EC05 20 004	YSLYCY-JZ 4x150 600/1000V	61,2	6300	7800
EC05 21 004	YSLYCY-JZ 4x185 600/1000V	67,0	7751	9862

G = with protective conductor GN/YE ; X = without protective conductor



MULTICORE CONTROL CABLES - LSZH

CONTROL MULTICORE - VDE

HSLH-JZ/OZ

Construction:

- Conductor: Flexible conductor complying with: IEC 60228 Class 5
- Insulation: LSZH compound (EN 50290-2-26)
- Core: Black numbered + Yellow/Green
- Identification: with VDE 0293
- Taping: Soft tape
- Outer sheath: LSZH Compound (EN 50290-2-26) , Flame retardant IEC 60332-1 (Grey RAL7001).



Application:

- These types of HFFR cables are used in office equipment, electronic control systems, air condition systems, power stations, engineering projects for control, vision and measurement purposes. These can be used in wet or dry indoor applications. Because of the HFFR material, These don't burn easily and when These do, the flames go off by themselves. These have low smoke density and These don't emit poisonous and corrosive gases during a fire. These used in buildings where there are important goods or human population.

Standard:

- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2; IEC/EN 61034-2; IEN/EN 60754-1/2
- References standards to BS EN 50252-3-11

Technical Properties (@ 20°C)

- Temperature range: -40°C ~ +80°C
- Minimum Bending Radius: Installation 15 x Diameter ; Fixed 8 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 2500V
- Insulation resistance: ≥ 200 Mohm/km
- Operation voltage: ≤ 1.5mm² 300/500V ;
- ≥ 2.5mm² 450/750V ;
- ≥ 10mm² 600/1000V



ESCAB Order No.	Cable Type	Outer Diameter	Copper Weight	Approx. Cable Weight
		(mm)	(kg/km)	(per reel)
EC12 05 002	HSLH-OZ 2x0.50 300/500V	5,0	10	38
EC12 05 003	HSLH-JZ 3G0.50 300/500V	5,4	14	45
EC12 05 004	HSLH-JZ 4G0.50 300/500V	5,8	19	55
EC12 05 005	HSLH-JZ 5G0.50 300/500V	6,5	24	70
EC12 05 007	HSLH-JZ 7G0,50 300/500V	6,7	34	85
EC12 06 002	HSLH-JZ 2x0.75 300/500V	6,2	14	55
EC12 06 003	HSLH-JZ 3G0.75 300/500V	6,6	22	65
EC12 06 004	HSLH-JZ 4G0.75 300/500V	7,1	29	80
EC12 06 005	HSLH-JZ 5G0.75 300/500V	8,0	36	100
EC12 06 007	HSLH-JZ 7G0.75 300/500V	7,5	50	125
EC12 07 002	HSLH-JZ 2x1.0 300/500V	6,6	19	60
EC12 07 003	HSLH-JZ 3G1.0 300/500V	6,9	29	75
EC12 07 004	HSLH-JZ 4G1.0 300/500V	7,7	38	100

G = with protective conductor GN/YE ; X = without protective conductor

MULTICORE CONTROL CABLES - LSZH

CONTROL MULTICORE - VDE

HSLH-JZ/OZ

ESCAB Order No.	Cable Type	Outer Diameter	Copper Weight	Approx. Cable Weight
		(mm)	(kg/km)	(per reel)
EC12 08 002	HSLH-JZ 2x1.5 300/500V	7,2	29	85
EC12 08 003	HSLH-JZ 3G1.5 300/500V	7,8	43	105
EC12 08 004	HSLH-JZ 4G1.5 300/500V	8,8	58	120
EC12 08 005	HSLH-JZ 5G1.5 300/500V	9,8	72	145
EC12 08 007	HSLH-JZ 7G1.5 300/500V	9,2	101	195
EC12 09 002	HSLH-JZ 2x2,5 450/750V	8,9	48	115
EC12 09 003	HSLH-JZ 3x2,5 450/750V	9,5	72	140
EC12 09 004	HSLH-JZ 4x2,5 450/750V	10,4	96	205
EC12 09 005	HSLH-JZ 5x2,5 450/750V	11,6	120	240
EC12 09 007	HSLH-JZ 7x2,5 450/750V	11,2	168	330
EC12 10 002	HSLH-JZ 2x4 450/750V	10,5	77	180
EC12 10 003	HSLH-JZ 3x4 450/750V	11,0	116	230
EC12 10 004	HSLH-JZ 4x4 450/750V	12,8	154	280
EC12 11 003	HSLH-JZ 3x6 450/750V	13,0	173	330
EC12 11 004	HSLH-JZ 4x6 450/750V	14,1	230	390
EC12 12 004	HSLH-JZ 4x10 600/1000V	18,1	384	725
EC12 13 004	HSLH-JZ 4x16 600/1000V	21,3	614	925
EC12 14 004	HSLH-JZ 4x25 600/1000V	26,4	960	1625
EC12 15 004	HSLH-JZ 4x35 600/1000V	29,8	1344	2130
EC12 16 004	HSLH-JZ 4x50 600/1000V	35,2	1920	2950
EC12 17 004	HSLH-JZ 4x70 600/1000V	39,7	2688	4080
EC12 18 004	HSLH-JZ 4x95 600/1000V	46,1	3648	5500
EC12 19 004	HSLH-JZ 4x120 600/1000V	53,0	4608	6950
EC12 20 004	HSLH-JZ 4x150 600/1000V	56,5	5760	7800
EC12 21 004	HSLH-JZ 4x185 600/1000V	59,8	7104	8200
EC12 22 004	HSLH-JZ 4x240 600/1000V	70,2	9210	10500

G = with protective conductor GN/YE ; X = without protective conductor



MULTICORE SCREENED CONTROL CABLES - LSZH

CONTROL MULTICORE BRAIDING - VDE

HSLCH-JZ / OZ | HSLHCH-JZ

Construction:

- Conductor: Flexible conductor complying with: IEC 60228 Class 5, VDE 0295 Class 5
- Insulation: LSZH compound
- Core: Black numbered + Yellow/Green
- Identification: with VDE 0293
- Taping: Soft tape
- Shielded: Tinned Copper Braiding
- Outer sheath: LSZH Compound Flame retardant IEC 60332-1 (Grey RAL7001)
- UV resistant outer sheath.

Application:

- These Halogen Free Flame Retardant cables (armored) are used for office equipment, electronic control systems, air condition systems, power stations, engineering projects for control, vision, and measurement purposes. These can be used in wet or dry indoor applications. Because of the HFFR material, These don't burn easily, and when These do the flames go off by themselves. These have low smoke density and don't emit poisonous and corrosive gases during the fire. They are used in buildings where there are important goods or human populations. Armor; protect against mechanical traverse loads and act as a magnetic screen against interference.

Standard:

- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2; IEC/EN 61034-2; IEN/EN 60754-1/2
- References standards to BS EN 50252-3-11

Technical Properties (@ 20°C)

- Temperature range: -40°C ~ +80°C
- Minimum Bending Radius: Installation 15 x Diameter ; Fixed 8 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 2000V
- Insulation resistance: ≥ 100 Mohm/km
- Operation voltage: ≤ 1.5mm² 300/500V | HSLCH-JZ
- ≥ 2.5mm² 450/750V | HSLCH-JZ
- ≥ 10mm² 600/1000V | HSLYCH-JZ



ESCAB Order No.	Cable Type	Outer Diameter (mm)	Copper Weight (kg/km)	Approx. Cable Weight (per reel)
EC22 05 002	HSLCH-OZ 2x0.50 300/500V	6,9	32	65
EC22 05 003	HSLCH-JZ 3G0.50 300/500V	7,2	38	70
EC22 05 004	HSLCH-JZ 4G0.50 300/500V	7,9	45	90
EC22 05 005	HSLCH-JZ 5G0.50 300/500V	8,3	50	100
EC22 05 007	HSLCH-JZ 7G0.50 300/500V	8,8	70	125
EC22 06 002	HSLCH-JZ 2x0.75 300/500V	7,4	40	80
EC22 06 003	HSLCH-JZ 3G0.75 300/500V	7,9	45	95
EC22 06 004	HSLCH-JZ 4G0.75 300/500V	8,4	56	110
EC22 06 005	HSLCH-JZ 5G0.75 300/500V	9,0	70	125
EC22 06 007	HSLCH-JZ 7G0.75 300/500V	9,7	85	150
EC22 07 002	HSLCH-JZ 2x1.0 300/500V	8,0	45	90
EC22 07 003	HSLCH-JZ 3G1.0 300/500V	8,2	56	105
EC22 07 004	HSLCH-JZ 4G1.0 300/500V	8,7	68	125

G = with protective conductor GN/YE ; X = without protective conductor

MULTICORE SCREENED CONTROL CABLES - LSZH

CONTROL MULTICORE BRAIDING - VDE

HSLCH-JZ/OZ / HSLHCH-JZ

ESCAB Order No.	Cable Type	Outer Diameter	Copper Weight	Approx. Cable Weight
		(mm)	(kg/km)	(per reel)
EC22 08 002	HSLCH-JZ 2x1.5 300/500V	9,8	62	130
EC22 08 003	HSLCH-JZ 3G1.5 300/500V	10,2	75	165
EC22 08 004	HSLCH-JZ 4G1.5 300/500V	10,9	95	200
EC22 08 005	HSLCH-JZ 5G1.5 300/500V	11,8	110	230
EC22 08 007	HSLCH-JZ 7G1.5 300/500V	13,5	140	310
EC22 09 003	HSLCH-JZ 3x2.5 450/750V	12,1	115	240
EC22 09 004	HSLCH-JZ 4x2.5 450/750V	13,2	140	285
EC22 09 005	HSLCH-JZ 5x2.5 450/750V	14,2	185	330
EC22 09 007	HSLCH-JZ 7x2.5 450/750V	15,8	240	440
EC22 10 004	HSLCH-JZ 4x4 450/750V	15,5	280	420
EC22 11 004	HSLCH-JZ 4x6 450/750V	17,5	350	560
EC22 12 004	HSLCH-JZ 4x10 600/1000V	22,2	525	935
EC22 13 004	HSLHCH-JZ 4x16 600/1000V	25,5	890	1200
EC22 14 004	HSLHCH-JZ 4x25 600/1000V	33,8	1250	1760
EC22 15 004	HSLHCH-JZ 4x35 600/1000V	35,0	1550	2240
EC22 16 004	HSLHCH-JZ 4x50 600/1000V	40,4	2100	3250
EC22 17 004	HSLHCH-JZ 4x70 600/1000V	50,5	3100	4500
EC22 18 004	HSLHCH-JZ 4x95 600/1000V	54,0	3950	5850
EC22 19 004	HSLHCH-JZ 4x120 600/1000V	58,2	5150	7625
EC22 20 004	HSLHCH-JZ 4x150 600/1000V	63,8	6150	7950
EC22 21 004	HSLHCH-JZ 4x185 600/1000V	67,9	7625	9900
EC22 22 004	HSLHCH-JZ 4x240 600/1000V	72,2	9858	11830

G = with protective conductor GN/YE ; X = without protective conductor

HEAT RESISTANT CONTROL CABLES

SIHF / SIMH 180°C

Construction:

- Conductor: "SIHF" - Flexible Tinned conductor; "SIMH" - Flexible Copper conductor. Complying with: IEC 60228 Class 5, VDE 0295 Class 5
- Insulation: Silicon rubber compound
- Core identification: VDE 0293-308 & EN 50334 Black numbered + Yellow/Green after 5 cores.
- Outer sheath: Silicon Rubber Compound Flame retardant IEC 60332-1

Application:

- Silicone cables were evolved for use wherever insulation is subjected to extreme temperature changes. They are heat-resistant for permanent temperature up to +180C, for short time operation up to +220C. The good performance of the environmental resistant properties means that silicone cables can be used at temperatures down to -60 C. Silicone cables are halogen-free cables and are especially suited for installation in power stations. They have also found their uses in the steel producing industries, aviation industry, ship building as well as in ceramic, glass and cement factories. Due to elastical characteristic of core insulations, these are used as flexible connection cable.
- Resistant to: High molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolution, oxidation substances, tropical influences and weather, lake water, oxygen and UV.

Standard:

- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- Rated Voltage 300/500V

Technical Properties (@ 20°C)

- Temperature range: -60°C ~ +180°C
- Short temperature: +220°C
- Minimum Bending Radius: Installation 12.5 x Diameter ; Fixed 4 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 2000V
- Insulation resistance: ≥ 100 Mohm/km
- Operation voltage: $\leq 1.5\text{mm}^2$ 300/500V
- $\geq 2.5\text{mm}^2$ 450/750V



ESCAB Order No.	Cable Type	Insulation thickness (mm)	Outer Diameter (mm)	Copper Weight	Approx. Cable Weight (per reel)
EC07 05 002 (SIMH)	2x0.50	0,8	5,7	9	50
EC07 05 202 (SIHF)	2x0.50	0,8	5,7	9	50
EC07 05 203 (SIHF)	3x0.50	0,8	6,0	14	60
EC07 05 003 (SIMH)	3x0.50	0,8	6,0	14	60
EC07 05 204 (SIHF)	4x0.50	0,8	6,7	19	75
EC07 05 004 (SIMH)	4x0.50	0,8	6,7	19	75
EC07 05 005 (SIMH)	5x0.50	0,8	7,3	24	85
EC07 05 205 (SIHF)	5x0.50	0,8	7,3	24	85
EC07 05 006 (SIMH)	6x0,50	0,8	8,1	29	90
EC07 05 206 (SIHF)	6x0.50	0,8	8,1	29	90
EC07 05 207 (SIHF)	7x0.50	0,8	8,1	33	95
EC07 05 007 (SIMH)	7x0.50	0,8	8,1	33	95
EC07 08 002 (SIMH)	2x0.75	0,8	6,3	14	60
EC07 08 202 (SIHF)	2x0.75	0,8	6,3	14	60

HEAT RESISTANT CONTROL CABLES

SIHF / SIMH 180°C

ESCAB Order No.	Cable Type	Insulation thickness (mm)	Outer Diameter (mm)	Copper Weight (kg/km)	Approx. Cable Weight (per reel)
EC07 08 003 (SIMH)	3x0.75	0,8	6,8	22	75
EC07 08 203 (SIHF)	3x0.75	1,0	6,8	22	75
EC07 08 004 (SIMH)	4x0.75	1,0	7,5	29	95
EC07 08 204 (SIHF)	4x0.75	1,0	7,5	29	95
EC07 08 205 (SIHF)	5x0.75	1,0	8,3	36	115
EC07 08 005 (SIMH)	5x0.75	1,0	8,3	36	115
EC07 08 206 (SIHF)	6x0.75	1,0	9,0	43	135
EC07 08 006 (SIMH)	6x0.75	1,0	9,0	43	135
EC07 08 007 (SIMH)	7x0.75	1,0	9,0	50	140
EC07 08 207 (SIHF)	7x0.75	1,0	9,0	50	140
EC07 10 202 (SIHF)	2x1.0	1,0	6,7	19	75
EC07 10 002 (SIMH)	2x1.0	1,0	6,7	19	75
EC07 10 003 (SIMH)	3x1.0	1,0	7,1	29	90
EC07 10 203 (SIHF)	3x1.0	1,0	7,1	29	90
EC07 10 004 (SIMH)	4x1.0	1,0	7,7	38	110
EC07 10 204 (SIHF)	4x1.0	1,0	7,7	38	110
EC07 10 205 (SIHF)	5x1.0	1,0	8,6	48	135
EC07 10 005 (SIMH)	5x1.0	1,0	8,6	48	135
EC07 10 006 (SIMH)	6x1.0	1,0	9,5	58	160
EC07 10 206 (SIHF)	6x1.0	1,0	9,5	58	160
EC07 10 207 (SIHF)	7x1.0	1,0	9,5	67	170
EC07 10 007 (SIMH)	7x1.0	1,0	9,5	67	170
EC07 15 002 (SIMH/SIHF)	2x1.5	1,0	7.1	27	89
EC07 15 003 (SIMH/SIHF)	3x1.5	1,0	7.7	38	112
EC07 15 004 (SIMH/SIHF)	4x1.5	1,0	8.6	49	142
EC07 15 005 (SIMH/SIHF)	5x1.5	1,0	9.4	63	173
EC07 15 007 (SIMH/SIHF)	7x1.5	1,0	10.3	89	216
EC07 25 002 (SIMH/SIHF)	2x2.5	1,2	8.9	41	141
EC07 25 003 (SIMH/SIHF)	3x2.5	1,2	9.5	61	177
EC07 25 004 (SIMH/SIHF)	4x2.5	1,2	10.6	82	218
EC07 25 005 (SIMH/SIHF)	5x2.5	1,2	11.6	112	265
EC07 25 007 (SIMH/SIHF)	7x2.5	1,2	12.6	158	334
EC07 40 002 (SIMH/SIHF)	2x4.0	1,2	10.4	74	197
EC07 40 003 (SIMH/SIHF)	3x4.0	1,2	11.3	113	247
EC07 40 004 (SIMH/SIHF)	4x4.0	1,5	12.3	151	306
EC07 40 005 (SIMH/SIHF)	5x4.0	1,5	13.7	188	381
EC07 40 007 (SIMH/SIHF)	7x4.0	1,5	14.9	262	479
EC07 60 003 (SIMH/SIHF)	3x6.0	1,5	12.6	168	326
EC07 60 004 (SIMH/SIHF)	4x6.0	1,5	13.8	226	406
EC07 60 005 (SIMH/SIHF)	5x6.0	1,5	15.6	283	504
EC07 10 103 (SIMH/SIHF)	3x10	1,8	15.8	281	512
FC07 10 104 (SIMH/SIHF)	4x10	1.8	17.6	370	648



HARMONISED RUBBER CABLE

H07RN-F 450/750

Construction:

- Conductor: Flexible Copper conductor, complying with: IEC 60228 Class 5, VDE 0295 Class 5.
- Insulation: EI4 type rubber (EPR)
- Core identification: HD-308
- Inner sheath: EM2 or EM3 type elastomer compound. (if outer sheath thickness is greater then 2.4mm)
- Outer sheath: Silicon Rubber Compound Flame retardant IEC 60332-1

Application:

- Heavy-duty rubber flexible trailing cable for power supply with a voltage rating of 450/750V designed to provide high flexibility and to withstand chemical, mechanical and thermal stresses. It is suitable for applications such as handling equipment, mobile power supplies, worksites, stage and audio visual equipment, port areas and dams. As part of Eland Cables' portfolio of rubber flexible cables, the tough rubber sheath also makes this cable suitable for use in drainage and water treatment, cold or refrigerated environments, and severe industrial environments.

Standard:

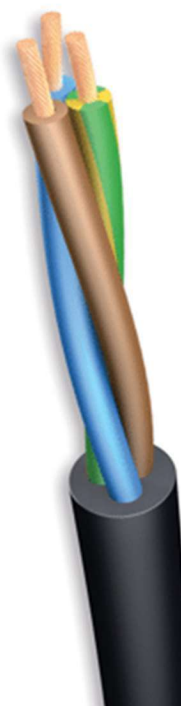
- UV Stable acc. to ISO 4892-2/A
- Flame retardant acc. to IEC 60332-1-2
- Oil resistant EN/IEC 60811-2-1 ; Cold resistant ; Tear resistant ;
- Rated Voltage 450/750V

Technical Properties (@ 20°C)

- Temperature range: -30°C ~ +60°C fixed installation. -15°C ~ +60°C when flexed.
- Conductor Short-Circuit temperature: +200°C
- Minimum Bending Radius: Installation 12.5 x Diameter ; Fixed 4 x Diameter

Electrical Characteristics (@20°C):

- Dielectric strength: 2000V
- Insulation resistance: ≥ 100 Mohm/km
- Operation voltage: $\leq 1.5\text{mm}^2$ 300/500V
 $\geq 2.5\text{mm}^2$ 450/750V



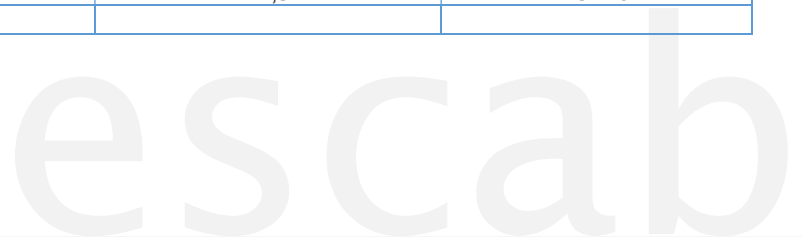
ESCAB Order No.	Cable Type	Outer Diameter	Approx. Cable Weight
		(mm)	(per reel)
EC11 0015 01	1x1.50	5,7	58
EC11 0025 01	1x2.50	6,3	77
EC11 0040 01	1x4.00	7,2	106
EC11 0060 01	1x6.00	7,9	136
EC11 0100 01	1x10.0	9,5	208
EC11 0160 01	1x16.0	10,8	293
EC11 0250 01	1x25.0	12,7	428
EC11 0350 01	1x35.0	14,3	573
EC11 0500 01	1x50.0	16,5	788
EC11 0700 01	1x70.0	18,6	1057
EC11 0950 01	1x95.0	20,8	1381



HARMONISED RUBBER CABLE

H07RN-F 450/750

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Approx. Cable Weight (per reel)
EC11 0950 01	1x95.0	20,8	1381
EC11 1200 01	1x120	22,8	1711
EC11 1500 01	1x150	25,2	2111
EC11 1850 01	1x185	27,6	2574
EC11 2400 01	1x240	30,6	3273
EC11 3000 01	1x300	33,5	4022
EC11 0010 02	2x1,0	7,7	104
EC11 0015 02	2x1,5	8,5	130
EC11 0025 02	2x2,5	10,2	191
EC11 0400 02	2x4,0	11,8	265
EC11 0600 02	2x6,0	13,1	346
EC11 0100 02	2x10	17,7	611
EC11 0160 02	2x16	20,2	843
EC11 0010 03	3x1,0	8,3	124
EC11 0015 03	3x1,5	9,2	160
EC11 0025 03	3x2,5	10,9	232
EC11 0400 03	3x4,0	12,7	329
EC11 0600 03	3x6,0	14,1	431
EC11 0100 03	3x10	19,1	760
EC11 0160 03	3x16	21,8	1062
EC11 0250 03	3x25	21,6	1575
EC11 0350 03	3x35	29,3	2073
EC11 0500 03	3x50	34,1	2860
EC11 0700 03	3x70	38,4	3788
EC11 0950 03	3x95	43,8	4940
EC11 1200 03	3x120	47,4	6123
EC11 1500 03	3x150	52,5	7518
EC11 1850 03	3x185	58,5	9125
EC11 2400 03	3x240	65,5	11844
EC11 0010 04	4x1,0	9,2	155
EC11 0015 04	4x1,5	10,2	198
EC11 0025 04	4x2,5	12,1	291
EC11 0400 04	4x4,0	14,1	411
EC11 0600 04	4x6,0	15,7	547
EC11 0100 04	4x10	20,9	945
EC11 0160 04	4x16	23,8	1322
EC11 0250 04	4x25	28,7	1989
EC11 0350 04	4x35	32,5	2637
EC11 0500 04	4x50	37,7	3635
EC11 0700 04	4x70	42,7	4865
EC11 0950 04	4x95	48,4	6405
EC11 1200 04	4x120	53,5	7825
EC11 1500 04	4x150	58,5	9628
EC11 1850 04	4x185	64,5	11768
EC11 2400 04	4x240	72,5	15176



HARMONISED RUBBER CABLE

H07RN-F 450/750

ESCAB Order No.	Cable Type	Outer Diameter (mm)	Approx. Cable Weight (per reel)
EC11 0010 05	5x1,0	10,2	191
EC11 0015 05	5x1,5	11,2	241
EC11 0025 05	5x2,5	13,5	353
EC11 0400 05	5x4,0	15,7	508
EC11 0600 05	5x6,0	17,5	677
EC11 0100 05	5x10	22,8	1151
EC11 0015 07	7x1,5	14,7	365
EC11 0025 07	7x2,5	17,2	502
EC11 0400 07	7x4,0	20,5	720
EC11 0015 12	12x1,5	17,6	587
EC11 0025 12	12x2,5	21,5	849
EC11 0400 12	12x4,0	24,5	1232
EC11 0015 18	18x1,5	20,7	828
EC11 0025 18	18x2,5	24,5	1201
EC11 0400 18	18x4,0	28,9	1758
EC11 0015 24	24x1,5	24,5	1125
EC11 0025 24	24x2,5	28,9	1658
EC11 0015 36	36x1,5	27,8	1532
EC11 0025 36	36x2,5	33,5	2282

(*) The overall diameters of cables have been calculated in accordance with EN 60719.



COMPENSATING AND EXTENSION CABLES

TYPE LX, JX | K, KX, KCA | RCB, SCB

FEP insulation Cables



Application range

Allows temperature measurement even in places where non-contact temperature measurement is not possible or reasonable. The thermocouple is used to measure temperature as a part of monitoring the manufacturing process, thus the sheath material should be selected with reference to the maximum ambient temperature at its junction.

Color identity code

□ DIN 43710

► Negative conductor and outer sheath:

- Fe/CuNi: blue
- NiCr/Ni: green
- PtRh/Pt: white

► Positive conductor: always red

□ IEC 60 584

► Positive conductor and outer sheath:

- Fe/CuNi: black
- NiCr/Ni: green
- PtRh/Pt: orange

► Negative conductor: always white

► Conductor materials (alloys):

Fe/CuNi (LX, JX)

Conductor alloys are identical to thermocouple alloys

► NiCr/Ni (K, KX, KCA)

K and KX version - conductor alloys are identical to thermocouple alloys

KCA version: compensating alloys (for KCA: Fe/CuNi), not identical to thermocouple alloys

► PtRh/Pt (RCB, SCB)

Compensating alloys (for RCB, SCB: Cu/CuNi) are not identical to thermocouple alloys

Fire performance:

- IEC.60332-3-24 ; IEC.60332-3-25 ; IEC.60332-1-2

Chem. Resistance:

- Very good against fats, oils, salts and acids

Technical Data

► Conductor stranding

- 1.5 mm : approx. 48 x 0.20 mm
- 0.75 mm : approx. 24 x 0.20 mm
- 0.5 mm : approx. 16 x 0.20 mm
- 0.22 mm : approx. 7 x 0.20 mm

► Minimum bending radius

- Without metal braiding:
 - 12 x cable diameter
- With metal braiding:
 - 15 x cable diameter

► Temperature range

- PVC: -5°C to +80°C
- Silicone: -25°C to +180°C
- Glass fibre: -25°C to +200°C
- **FEP: -100°C to +205°C**
- E-Glass: -25°C to +400°C

► Insulation resistance:

- 1 MΩ x km

Design abbreviations:

- PVC: Polyvinylchloride
- SIL: Silicone rubber
- GL: Glass fibre
- **FEP: Fluorinated ethylene propylene**
- EGL: E-Glass fibre
- **C: Tinned copper braiding screen**
- **PETP: Aluminium foil screen**
- S: Steel wire braiding

Shape:

- Round

□IEC 60584

For thermocouple	EMK at 100°C in mV	Cable type
Type T	4,28	TX
Type J	5,27	JX
Type K	4,10	KCA
Type K	4,10	KCB
Type K	4,10	KX
Type E	6,32	EX
Type R/S	0,65	R/SCB
Type N	2,77	NC

Type conductor	1,5mm ²	0,22mm ²	1,5mm ²	0,22mm ²
Outer diameter (approx.)	4,8mm	2,5mm	5,5mm	3,0mm
Weight per 100m	4,2kg	1,0kg	5,9kg	1,9kg

Order Part Number:

□With braiding

[FEP/PETP/TCB/FEP] [Cable type] [core x type conductor]

□Without braiding

[FEP/PETP/FEP] [Cable type] [core x type conductor]

Exam.:

Thermocouple type K 2 core 1.5sqmm with Foil PETP and none braiding. Then order part number is :
 FEP/PETP/FEP KX 2 x 1,5mm²

escab