



PRODUCT CATALOGUE

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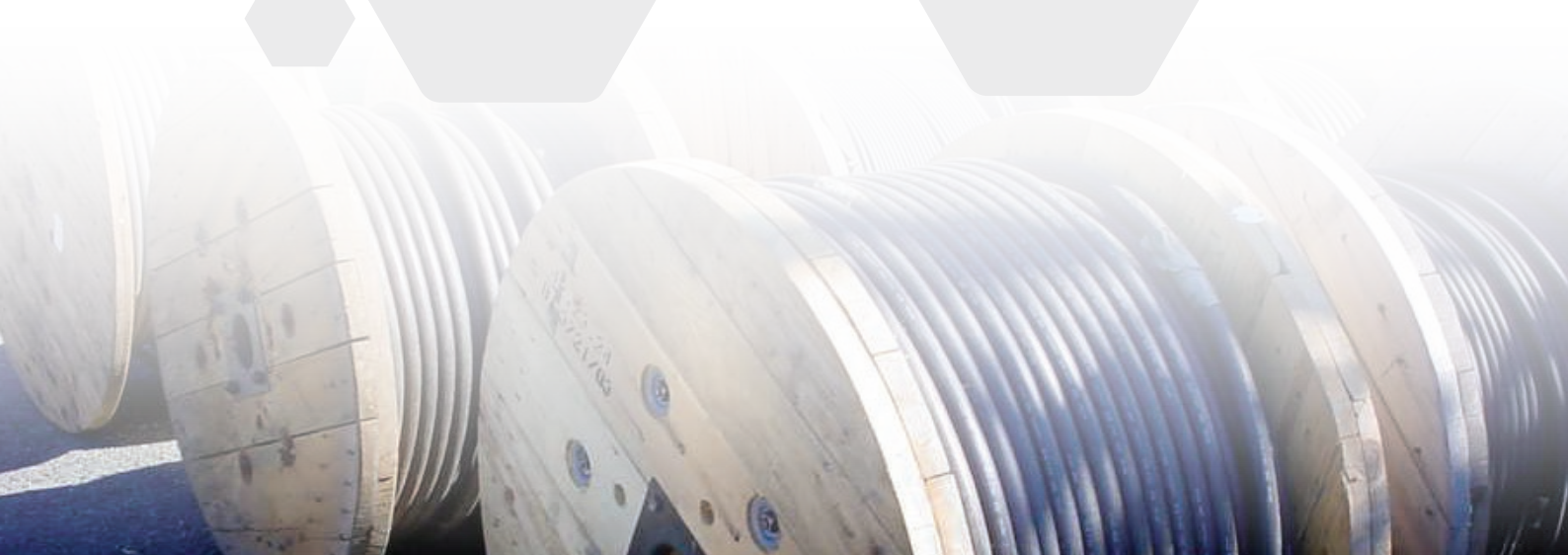
ABOUT US

Kamarossi Cables & Electrical Distributors is focused on the production and distribution of electrical accessories, specialised cables and products.

We are able to distribute and manufacture any type of communication-, electrical-, fiber-, control-, and power cables specified according to a client's individual specifications.

Kamarossi, in conjunction with another company, manufactures joint and termination kits which are SABS approved.

Kamarossi is also an agent for Geokon Inc. and import geotechnical instrumentation for the mining industry. We offer EXCELLENT SERVICE, with short delivery times and have good quality products which we supply to various industries in the market, which includes the mining, industrial, automation and building industries.



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CABLING

AERIAL BUNDLED CONDUCTOR (LV-ABC) POWER CABLE



Construction

The phase conductors are concentrically stranded compressed 1350-H19 aluminium and insulated polyethylene or crosslinked polyethylene (XLPE).

The neutral messengers are concentrically stranded 6201 aluminium alloy.

Standard

SANS1418-1, SANS1418-2, NFC33-209

Cable Description

Self-supporting system consists of four cores of hard-drawn stranded and compacted aluminum conductors of equal cross-section and insulated with carbon-loaded XLPE to ensure UV protection. All cores strained equally. Supporting-core system consists of three phase cores of hard-drawn stranded compacted aluminium conductors insulated with carbon- loaded XLPE laid up around an aluminium-alloy supporting core insulated with carbon loaded XLPE to ensure UV protection. Additional subconductors optional in both self-supporting and supporting-core systems.

Properties

Specification : SANS 1418 Part 1 and 2
 Temperature Range : -10°C to 80°C
 Voltage Rating : 600/1000V
 Core Identification : Phase 1,2 and 3 indented • Non strain-bearing neutral, 2 longitudinal ribs on opposite surfaces 0,5mm x 1,00mm • Strain-bearing (supporting) neutral, 1 longitudinal rib on one surface 0,5mm x 1,00mm
 Packaging : Available on 500 metre wooden drums

Phase	Supporting	Service Connection	Phase			Supporting		Service Connection			Approx. Overall Diameter of Bundled Cable
			Compact Conductor		UV-XLPE	Conductor	UV-XLPE	Compact Conductor		UV-XLPE	
No.X Normal Cross Section of Cores	No.X Normal Cross Section of Cores	No.X Normal Cross Section of Cores	No. of Al Wire	Overall Diameter	Normal Thickness	No./Dia. of Al Wire	Normal Thickness	No. of Al Wire	Overall Diameter	Normal Thickness	
3 x 35	1 x 54.6	1 x 25	7	7.0	1.6	7/3.15	1.6	7	6.0	1.4	33.05
3 x 50	1 x 54.6	1 x 25	7	8.3	1.6	7/3.15	1.6	7	6.0	1.4	35.65
3 x 70	1 x 54.6	1 x 25	19	10.0	1.8	7/3.15	1.6	7	6.0	1.4	39.85
3 x 95	1 x 54.6	1 x 25	19	11.6	1.8	7/3.15	1.6	7	6.0	1.4	43.05
3 x 35	1 x 54.6	2 x 25	7	7.0	1.6	7/3.15	1.6	7	6.0	1.4	33.05
3 x 70	1 x 54.6	2 x 25	19	10.0	1.8	7/3.15	1.6	7	6.0	1.4	39.85
3 x 95	1 x 54.6	2 x 25	19	11.6	1.8	7/3.15	1.6	7	6.0	1.4	43.05
3 x 120	1 x 54.6	2 x 25	19	13.0	1.8	7/3.15	1.6	7	6.0	1.4	45.85

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

ALUMINIUM CONDUCTOR STEEL REINFORCED



Application

Used for overhead transmission lines.

Standard

Aluminum 1350 wires and the steel cores are concentrically stranded and wrapped helically around a central wire.

Construction and Dimensions													
Conductor Name	Steel Core				Aluminium Outer layer(s)			Total Conductor			Outer Layer Lay direction	Standard drum length	Specification
	Number / Size	dia	area	mass	Number / Size	area	mass	dia	area	mass			
		mm	mm ²	kg/km		mm ²	kg/km	mm	mm ²	kg/km			
		Nom.	Nom.	Nom.		Nom.	Nom.	Nom.	Nom.	Nom.			
1 Steel + Aluminium											m		
Fox	1 / 2.79	2.79	6.11	48	6 / 2.79	36.68	99	8.37	42.80	149	(Z)RH	1500	BS EN
Rabbit	1 / 3.35	3.35	8.81	69	6 / 3.35	52.88	143	10.05	61.71	212	(Z)RH	1500	BS EN
Mink	1 / 3.66	3.66	10.52	83	6 / 3.66	63.13	171	10.98	73.65	257	(Z)RH	1500	BS EN
Hare	1 / 4.72	4.72	17.50	137	6 / 4.72	104.98	284	14.16	122.48	427	(Z)RH	1500	BS EN



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COPPER LOW HALOGEN (LHC) ARMoured CABLE 600/1000V

LH



Description

Plain Annealed copper conductors, PVC insulated, PVC(LH), Bedded, Galvanised Steel Armour, PVC (LH) Sheath

Specification: SANS 1507-3

Voltage Rating	600/1000V
Sheath Colours	Black with Blue stripe
Core colours	2 core – Black and Red
	3 core – Red, Yellow and Blue
	4 core – Red, Yellow, Blue and Black
	7 core – Red, Yellow, Blue, Black, Violet, Brown and Orange

Application

These cables may be used for main power distribution in general industries, houses and commercial buildings. These cables are suitable for direct burial installations as well as in air or ducts. The PVC in LHC armoured cable is specially formulated to reduce corrosive halogen gasses which are produced by burning PVC, so are suitable for use in closed areas such as mines and offices.

COPPER FLAME RETARDANT (FR) ARMoured CABLE 600/1000V

FR



Description

Plain Annealed copper conductors, PVC insulated, PVC, Bedded, Galvanised Steel Wire Armour, PVC (FR) Sheath

Specification: SANS 1507-3

Voltage Rating	600/1000V
Sheath Colours	Black with Red stripe
Core colours	2 core – Black and Red
	3 core – Red, Yellow and Blue
	4 core – Red, Yellow, Blue and Black
	7 core – Red, Yellow, Blue, Black, Violet, Brown and Orange

Application

These cables may be used for main power distribution in general industries, houses and commercial buildings. These cables are suitable for direct burial installations as well as in air or ducts. The flame retardancy in the PVC of the cable prevents the spread of fire.

Also available in HFC

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

COPPER FLAME RETARDANT (ECC FR) ARMoured CABLE 600/1000V



Description

Plain Annealed copper conductors, PVC insulated, PVC Bedded Galvanised Steel Wire Armour with Earth continuity Conductors in the armour, PVC Sheath.

Application

These cables may be used for main power distribution in general industries, houses and commercial buildings where the concentric earth eliminates the need for a supplementary earth continuity conductor.

Specification: SANS 1507-3

Voltage Rating	600/1000V
Sheath Colours	Black with Brown stripe
Core colours	2 core – Black and Red
	3 core – Red, Yellow and Blue
	4 core – Red, Yellow, Blue and Black
	7 core – Red, Yellow, Blue, Black, Violet, Brown and Orange

ALUMINIUM FLAME RETARDANT (FR) ARMoured CABLE 600/1000V



Description

Plain Hard drawn Aluminium conductors, XLPE insulated, PVC Bedded, Galvanised Steel Wire Armour, PVC (FR) Sheath

Application

These cables may be used for main power distribution in general industries, houses and commercial buildings. These cables are suitable for direct burial installations as well as in air or ducts. The flame retardency in the PVC of the cable prevents the spread of fire.

Specification: SANS 1507/4

Voltage Rating	600/1000V
Sheath Colours	Black with Red stripe
Core colours	2 core – Black and Red
	3 core – Red, Yellow and Blue
	4 core – Red, Yellow, Blue and Black
	7 core – Red, Yellow, Blue, Black, Violet, Brown and Orange

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

CABLING



AERIAL SERVICE CONNECTION CABLE (SNE)



Description

Stranded hard drawn copper phase conductor, XLPE insulated, Polyethylene insulated neutral with bare earth conductors. Polyethylene sheathed cable. Nylon ripcord laid under sheath.

Application

Aerial SNE Cable is used for house connections. This cable can only be used for single phase supply. Cable is made to be suspended in the air. Aerial SNE Cable is also suitable for underground general use. Split concentric cable suitable for power distribution as an underground or overhead cable.

Specification: SANS 1507/6

Voltage Rating	600/1000V
Conductor Type	Insulated neutral and bare earth conductors



AERIAL SERVICE CONNECTION CABLE (CNE)



Description

Circular stranded hard-drawn copper phase conductor, XLPE insulated with concentrically arranged bare earth conductors. Polyethylene sheathed 600/1000 V house service connection cable. Nylon ripcord laid under sheath.

Application

Aerial CNE Cable is used for house connections. This cable can only be used for single phase supply. Cable is made to be suspended in the air. Aerial CNE Cable is also suitable for underground general use. Split concentric cable suitable for power distribution as an underground or overhead cable.

Specification: SANS 1507/6

Voltage Rating	600/1000V
Conductor Type	Insulated neutral and bare earth conductors

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.



XLPE TRAILING (RV-K) FLEXIBLE, DOUBLE INSULATED, XLPE/PVC



Technical Data

Flexible power cable per IEC 60502; UNE 21123 with ampacity rating per IEC 60364

Temperatures

Operating: -15°C to 90°C

Voltage Rating

U0/U 600/1,000V

Min. Bending Radius

5 x OD

Application

This cable for power distribution is suitable for all types of low voltage industrial-type connections, in urban grids, building installations, etc. Its high flexibility makes the installation process substantially easier and thus is particularly suitable for use in difficult layouts. It can be buried or installed in a tube as well as outdoors without requiring additional protection. Lastly, RV-K cable can withstand damp conditions, including total immersion in water.

Construction

Flexible electrolytic annealed copper conductors, class 5 per IEC 60228. XLPE core insulation, type DIX3 per HRN HD 603. Colour coding as per HRN HD 308. Bedding and outer sheath with flexible, fire retardant PVC, type DVM 18 per HRN HD 603.

Properties & Identification

The special PVC compound provide excellent resistance to chemical corrosion and water absorption.

Additional

- Excellent flexibility:** The use of flexible copper conductors and special PVC compounds makes this cable highly flexible.
- Great power:** The cross-linked polyethylene insulation (XLPE) allows greater power transmission as well as a higher resistance to overloads. Additionally, it raises the maximum conductor temperature to 90°C (vs. 70°C in type NYY or VV cables)
- Lower installation costs:** The use of flexible cable noticeably speeds up the installation which in many cases means lower installation cost.
- Fire-proof properties:** The NO flame propagation properties of the cable contribute towards improving the overall safety of the installation.
- Protection:** The special PVC mix outer sheath provides a high level of protection against hydrocarbon and mineral oils.
- Versatility:** RV-K's design permits it to be installed in almost all types of environments: Outdoors, buried, in humid environments and even immersed in water.

KAMA TRAIL - PVC TRAILING (ORANGE) FLEXIBLE, DOUBLE INSULATED, PVC/PVC



Technical Data

Flexible power cable with ampacity rating per SANS 1574/2004. Manufactured in accordance with SANS and other National and International standards.

Temperatures

Operating: -10°C to 70°C

Voltage Rating

U0/U 600/1,000V

Min. Bending Radius

5 x OD

Application

This cable is used for power to mobile and stationary industrial machinery or applications that require medium duty cables that are abrasion resistant. Can be used in dry or damp conditions. The selection and installation of these products must be carried out in accordance with SANS 10142 Part 1, code of practice, "The Wiring of Premises".

Construction

Flexible electrolytic annealed copper conductors, class 5 per IEC 60228 (SANS 1411 Part 1).

Core insulation and bedding with flexible PVC.
Outer sheath with special, flame retardant PVC.

Properties & Identification

The special PVC compound provide excellent resistance to chemical corrosion and water absorption.
Flame retardant, self-extinguishing, high abrasion resistant.

Standard outer sheath colour: Orange
Core colour coding: Red, Yellow, Blue, Black
Alternative colours available upon request.

Additional

Available in 500m drums or cut to length (conditions may apply).

TECHNICAL INFORMATION					
CABLE SIZE	NORMAL STRANDING No x DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING NOTE 1	VOLT DROP NOTE 1	APPROX. CABLE WEIGHT MASS PER 100M COIL
(MM ²)		(mm)	(A)	(MV/M)	(Kg)
1.5x4	30x0.25	12.0	16	27.00	22.0
2.5x4	50x0.25	13.5	25	16.00	27.0
4.0x4	56x0.30	15.5	32	10.00	38.0
6.0x4	54x0.30	18.0	27	6.50	52.0
10.0x4	140x0.30	20.0	50	3.80	72.0
16.0x4	224x0.30	24.0	65	2.40	104.0
25.0x4	376x0.30	28.0	89	1.50	149.0

BASED ON A MAX AMBIENT TEMPERATURE OF 30°C AND A MAX CONDUCTOR TEMPERATURE OF 70°C

CABLING



RUBBER TRAILING (H07 RN-F) RUBBER POWER CABLE, 0.6/1KV



Technical Data

Power transmission rubber insulated cable with special sheath suited for heavy duty installations.

Per BT 2006/95/EC- 2011/65/EU (RoHS 2).

CEI EN 50525-2-21; CEI 20-107/2-21; CEI 20-19/4 (CENELEC HD 22.4 S4); BS 7919:2001 NF C 32-102-4; VDE 0282-4; CEI EN60332-1-2 (CEI 20-35); BS EN 60332-1-2 NF EN 60332-1-2 DIN EN 60332-1-2

Temperatures

Operating: -25°C to 60°C (85C in fixed, protected installations)

Min (without mechanical shocks): -40°C

Max short circuit: 200°C

Voltage Rating

U0/U 450/750V

Fixed installations: U0/U 600/1,000V

Test voltage

2,500V

Tensile Strength (Maximum)

Fixed: 50 N/mm²

Flexing: 15 N/mm²

Min. Bending Radius

OD (mm)	< 8	< 12	< 20	> 20
Fixed	3 x OD	3 x OD	4 x OD	4 x OD
Flexing	4 x OD	4 x OD	5 x OD	6 x OD

Application

Suitable for applications in dry, damp or wet environments (AD6), in open air, in workshops with an explosive atmosphere. Resistant to medium mechanical stress like equipment in industrials and agricultural workshops, boilers, heating plates, portable lamps, electric tools like drills, circular saws, electric home-tools, motors or transportable generators in construction sites or agricultural plants etc. It can be used in fixed installations such as floors and temporary construction sites.

Construction

Annealed stranded copper conductor, class 5.

Core insulation with Elastomeric compound, EI4.

Black outer sheath (Polychloroprene, EM2).

Properties & Identification

Ozone and oil resistant per EN 60811-2-1 (Test method A) and CEI EN 50396 (Test method B).

Water, chemical and abrasion resistant.

Additional

Ink marking: IEMMEQU <HAR> - H07RN-F

Packed in drums, 100m coils or cut to length (conditions may apply).

CABLING



SIL-TECH SIF (SINGLE CORE)

FLEXIBLE SINGLE CORE, SILICONE RUBBER INSULATED, HEAT RESISTANT



Technical Data

Silicone single core cable with heat resistance as per HD 22.15 DIN VDE 0282-15

Temperatures

Operating: -60°C to 180°C; Flash: up to 220°C; Short Circuit: 350°C

Voltage Rating

U0/U 300/500V

Test Voltage

2,000V

Min. Bending Radius

6 x OD

Application

Silicone insulated cables are suited for applications in high or low temperatures. When exposed to an open flame or fire they produce minimal smoke or fumes and can be used to wire public buildings. Used in industries such as moulding, packaging, food processing, refrigeration, furnaces, lighting and the boating industries.

Construction

Annealed tinned copper conductor (Stranded Class 5 as per CEI EN 60228)

Core insulation with silicone rubber (E12)

Colour coding as per CEI UNEL 00722 / HD 308

Outer sheath silicone rubber (EM9)

Properties & Identification

Halogen Free per IEC 60754-1 / -2

Resistance to high and low temperatures

Weather proof. RoHS Compliant

Also available in plain copper conductors

Additional

Cable marking: SIL-TECH VDE



SIL-TECH SIHF (MULTI CORE)

FLEXIBLE MULTICORE, SILICONE RUBBER INSULATED, HEAT RESISTANT



Technical Data

Flexible, colour coded multicore cable with optional braided screen, per Defence Specification (Standard) DEF STAN 61-12 Part 4.

Temperatures

Fixed: -30°C to 70°C; Flexing: -15°C to 70°C

Voltage Rating

440V rms at frequencies up to 1.6 kHz

Min. Bending Radius

Fixed: 7.5 x OD

Application

Silicone insulated multicore cables are suited for applications in high or low temperatures. When exposed to an open flame or fire they produce minimal smoke or fumes and can be used to wire public buildings. Options include galvanised steel wire braid for mechanical protection or a tinned copper wire braid for screening against EMI. Used in industries such as moulding, packaging, food processing, refrigeration, furnaces, lighting and the boating industries.

Construction

Annealed tinned copper conductor (Stranded Class 5 as per CEI EN 60228)

Core insulation with silicone rubber (E12)

Colour coding as per CEI UNEL 00722 / HD 308

Outer sheath silicone rubber (EM9)

Outer sheath colour red-brown

Properties & Identification

Available in bare copper conductors

Halogen free. RoHS Compliant.

Heat, chemical, oil and ozone resistant

Available in black outer sheath

x: RD = Red-brown / BK = Black

Additional

Cable marking: SIL-TECH VDE

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

CABLING

SABS



BARE COPPER EARTH WIRE



Description

Single core stranded, annealed copper conductor

Specification

SANS 1411

Packaging

Available in coils and wooden drums

SABS



GENERAL PURPOSE HOUSE WIRE



Description

Plain annealed stranded copper conductors, insulated with a general purpose grade PVC.

Application

For the wiring of Housing, Buildings, Control Panels, Appliances.

Specification: SANS 1507-3

Voltage Rating	600/1000V
Temperature Range	-10°C to 70°C
Sheath colours	Black, Blue, Brown, Green/Yellow, Grey, Orange, Pink, Purple, Red, White, Yellow
Packaging	100m Shrink-wrapped coils 500m Also available on spools or drums

CABLING



FLAT TWIN AND EARTH CABLE



Description

Solid or stranded plain copper conductors, PVC insulated, laid up with bare copper earth wire, PVC sheathed overall.

Specification: SANS 1507-2

Voltage Rating	300/500V
Temperature Range	-10°C to 70°C
Sheath colours	Black and white
Core colours	2 core – Black and Red 3 core – Blue, Red and Yellow

Installation Information

Complies with SANS 10142/2001 "Code of Practice for the wiring of Premises" Section 6, Clause 6.3.6:

- Surface wiring
- Under-plaster wiring
- Roof access wiring
- Wiring in hollow walls

Application

For the wiring of Under-plaster wiring, Roof wiring, Under-floor wiring.

Properties

Specification	SANS 1507-2
Temperature Range	-10°C to 70°C
Voltage Rating	300 / 500V
Sheath Identification	White & Black
Core Identification	2 Core – Red & Black 3 Core – Red, Yellow, Blue
Packaging	100m shrink – wrapped coils

SURFACE WIRING



Description

Plain copper conductors, PVC insulated, laid up with a tinned earth wire in contact with a longitudinal Aluminium foil tape, PVC sheathed overall.

Specification: SANS 1507-2

Voltage Rating	300/500V
Temperature Range	-10°C to 70°C
Sheath colours	Black and white
Core colours	2 core – Black and Red 3 core – Blue, Red and Yellow 4 core – Black, Blue, Red and Yellow

Application

For the wiring of Under-plaster wiring, Roof wiring, Under-floor wiring, Surface wiring.

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

CABLING

SABS



PANEL SOLID CABLE



Description

High conductivity, solid copper conductor to Sans 1411 part 1. PVC insulated 105°C

Specification

SANS 1507-2

Voltage Rating:

300/500V

Temperature Range:

-10°C to 70°C

Sheath Colours:

Black, blue, brown, green, grey, orange, pink, purple, red, white and yellow

Application

For the wiring of Ballasts, Fluorescent Lights.

Packaging

Shrink-wrapped coils 100m

PANEL WIRE (H05/H07 V-K)

FLEXIBLE PVC SINGLE CORE, FINE WIRE STRANDED, INDOOR WIRING



Technical Data

Flexible single core wire in accordance with BT 2014/35/UE – 2011/65/EU (RoHS 2); CEI EN 50525-2-31; CEI 20-20/3 (CENELEC HD 21.3 S3); BS 50525-2-31; NF C 32-201-3 VDE 0281-3; CEI EN 60332-1-2 (CEI 20-35/1-2); BS EN 60332-1-2; NF EN 60332-1-2; DIN EN 60332-1-2 (IEC 60227-3)

Temperatures

Operating: -10°C to 70°C; Short circuit: 160°C

Voltage Rating

H07: U0/U 450/750V

H05: U0/U 300/500V

Test Voltage

H07: 2,500V

H05: 2,000V

Min. Bending Radius

OD (mm)	< 8	< 12	< 20
Fixed lay	3 x OD	3 x OD	4 x OD
Near terminal	2 x OD	4 x OD	4 x OD

Additional

Packaging in 100m coils, packaged in thermoplastic film or cardboard box. Cable print: IEMMEQU <HAR>

Construction

Annealed copper conductor (Class 5 stranded) Insulated with special PCV compound (T11)

Properties & Identification

Flame retardant and self-extinguishing

Oil and chemical resistant

Available in various single or bi-colour combinations as per CEI EN 50525*1 5.44

Available in tinned copper conductor and available in solid conductor (H05/H07 V-U)

Sheath Colour (x)

BK - Black	G/Y - Green/Yellow	PI - Pink
RD - Red	GY - Grey	VI - Violet
BL - Blue	WH - White	YE - Yellow
BRN - Brown	OR - Orange	

Application

For fixed installations, inside or into electrical and lighting circuits, switch- and distributor boards, in conduit or mounted under surface plaster. (As per the usage guide for low voltage cables CEI 20-40)



SABS



CABLING

SABS



PVC NITRILE WELDING CABLE



Description

A light duty welding cable comprising a flexible conductor insulated with a Nitrile/PVC (Synthetic Rubber) compound.

Specification: SANS 1576

Voltage Rating	100/100V
Temperature Range	-10°C to 70°C
Sheath colours	Black, White, Brown, transparent (Other colours available on request)

Application

A welding cable for use in an environment where there is minimal abrasion or oil.

Packaging

Shrink-wrapped coils 100m
Also available on wooden drums 500m

TECHNICAL INFORMATION									
CABLE SIZE	COLOUR	APPROX. OVERALL DIAMETER	MAXIMUM CONDUCTOR RESISTANCE	APPROX. CABLE WEIGHT MASS PER 100M COIL	CURRENT RATING AT A DUTY CYCLE OF: NOTE 1				
					100% (60min/hr)	85% (50min/hr)	60% (36min/hr)	30% (18min/hr)	20% (12min/hr)
(mm ²)		(mm)	(Ω/km)	(kg)	(A)				
16.0	Green	10.3	1.19	21.2	110	120	140	200	245
25.0	Blue	11.9	0.78	29.4	140	150	180	255	315
35.0	Grey	13.6	0.55	38.7	185	200	240	340	415
50.0	Red	15.7	0.39	55.7	230	250	295	420	515
70.0	Brown	17.0	0.28	73.6	290	315	375	530	650
95.0	Yellow	19.1	0.21	95.3	350	380	450	640	785

BASED ON A MAX AMBIENT TEMPERATURE OF 30°C AND A MAX CONDUCTOR TEMPERATURE OF 70°C

RIPCORD



Description

Flexible plain copper conductors, PVC insulated.

Specification: SANS 1574

Voltage Rating	80V
Temperature Range	-10°C to 70°C
Sheath colours	Black, White, Brown, transparent (Other colours available on request)

Application

For the wiring of Audio Equipment, Intercoms, Alarm Systems.

Packaging

Shrink-wrapped coils 100m

SABS



Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

CABLING



FLEX POWER



Description

Plain annealed flexible copper conductor, flexible PVC bedded, with a nitrile PVC sheath.

Specification: SANS 1576

Voltage Rating	600/1000V
Temperature Range	-10°C to 70°C
Sheath colours	Black, red, green/yellow, blue (Other colours available on request)

Application

For the wiring of control panels and power installations where a flexible conductor is required.

Packaging

Shrink-wrapped coils 100m
Also available on wooden drums 500m

TECHNICAL INFORMATION					
CABLE SIZE	NOMINAL STRANDING No. x DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING NOTE 1	VOLT DROP NOTE 1	APPROX. CABLE WEIGHT MASS PER 100M COIL
(mm ²)		(mm)	(A)	(MV/A/M)	(kg)
16.0	240 x 0.3	10.3	75	2.420	21.2
25.0	329 x 0.3	11.9	105	1.560	29.4
35.0	455 x 0.3	13.6	125	1.108	38.7
50.0	670 x 0.3	15.7	150	0.772	55.7
70.0	904 x 0.3	17.0	190	0.544	73.6
95.0	1190 x 0.3	19.1	235	0.412	95.3

BASED ON A MAX AMBIENT TEMPERATURE OF 30°C AND A MAX CONDUCTOR TEMPERATURE OF 70°C

CABLING

SABS



SUBMERSIBLE PUMP CABLE



Description

Flexible plain copper conductors, PVC insulated, PVC Nitrile overall.

Specification: SANS 1574

Voltage Rating	600/1000V
Temperature Range	-10°C to 70°C
Sheath colours	3 core – Royal Blue
	4 core – Green
Core Colours	3 core – Red, Yellow, Blue
	4 core – Red, Yellow, Blue, Black

Installation Information

Power supply of mobile and portable submersible pumps as used in:

- Quarries
- Farms
- Cleaning and Sewerage extraction plants
- De-watering
- Boreholes

Application

Submersible Pumps, Boreholes, Farms

Properties

Specification	SANS 1574
Temperature Range	-10°C to 70°C
Insulation & Sheath	Flexible grade waterproof PVC
Voltage Rating	600 / 1000V
Sheath Identification	3 Core – Blue
	4 Core – Green
Core Identification	3 Core – Red, Yellow, Blue
	4 Core – Red, Yellow, Blue, Black
Packaging	Available on 500 metre wooden drums

PROFIBUS DP (L2)

PROCESS FIELD BUS, 22AWG (0.64MM), INDOOR, FIXED INSTALLATION



Technical Data

Profibus cable per DIN 19245 T3; EN50170

UL style: CMX 75oC (shielded); CSA standard: CSA FT1

Temperatures

Operating: -40°C to 70°C

Test Voltage

1.5kV

Min. Bending Radius

Minimum 120mm

Characteristic Impedance

150 Ω/km ±10%

Conductor Resistance

Max. 55 Ω/km; Min. 1 GΩ/km

Loop Resistance

Max. 110 Ω/km

Caloric Load

0.99 MJ/m

Weight: Total

± 69.0 kg/km; Copper: 24.0 kg/km

Additional

Cable Marking: PROFIBUS L2 INDOOR 1 x 2 x 0.64 SOLID (/STRANDED)

Construction

Solid bare copper conductors (1/22AWG; 0.64mm²)

or Stranded bare copper conductors (19/24AWG; 0.64mm²)

Foam skin PE insulation (Red, Green)

Polyester foil over bundle (2 cores, 2 fillers)

Aluminium/polyester foil screen

Tinned copper braided screen

Outer sheath with PVC (OD 7.9mm ±0.3)

Outer sheath colour Violet.

Application

An economical solution to interconnect L2-BUS components. Serial field bus systems are used for the information exchange between different automation systems as well as for communication with the connected decentralized field unit. Suitable for indoor applications.

CABLING

SOLAR-TECH (H1Z2Z-K)

FLEXIBLE SINGLE CORE, PHOTOVOLTAIC SYSTEMS, HALOGEN FREE



Technical Data

Single core flexible cable for photovoltaic or solar systems in accordance with EN 50618; IEC 60228; EN 50395; EN50396; EN 60332-1-2; EN 61034-1: -2; EN 50525-1; EN 60216-1: -2

Temperatures

Operating: -40°C to 90°C

Max core: 120°C (for 20,000hrs)

Voltage Rating

U0/U AC: 1.0/1.0kV

U0/U DC: 1.5/1.5kV

Test Voltage

6.5kV AC

Min. Bending Radius

14 x OD

Tensile Strength

15N/mm²

Application

Solar cable is suitable for the interconnection of various components in photovoltaic systems such as between photovoltaic (PV) panels and from panels to the inverter. Suitable for fixed outdoor installations in conduits, or similar closed systems.

The cable is manufactured to the latest requirements for PV systems, in accordance to the following Reference standards: EN50618 – EN60216-1-2 – EN 610345. The special insulation provides qualities such as high abrasion resistance and a high temperature rating. Moreover, the insulation is flame retardant, ozone and UV-resistant (Protection class II).

Construction

Annealed tinned copper conductors (Class 5)

Double insulated

Bedding of flexible cross-linked polymer

Outer sheath of special halogen free compound

Outer sheath colour Black / Red

Properties & Identification

Ozone and UV Resistant

TÜV and VDE approved

Estimated service lifespan of 25 years or more

Additional

Cable Print: H1Z2Z2-K (size) 1.0/1.0kV TÜV RHEINLAND TYPE APPROVED R601 (reg. no.) CE

CABLING



TELEPHONE – INDOOR

TELKOM (SAPO) SPEC, MULTICORE PVC, UNSCREENED



Technical Data

Indoor telephone cable to Telkom spec 268 / 271

Conductor Size

0.9mm²

Conductor Resistance

95.25 Ω/Km (@ 20°C)

Mutual Capacitance

90 nF/km

Capacity Unbalance p-p

400 pF/500m (800Hz Ind. Max)

Insulation Resistance

37.5 MΩ.km @500V DC (Individual Minimum)

Test Voltage

3,000V DC

Application

Telephone cable is used in PABX's, panel and switch gear connections.

Additional

Available in 100m coils and 500m drums

Construction

Solid annealed bare copper conductor
Core insulation with PVC (Type 02 to BS 6746)
Twisted pairs minimise interference and crosstalk.
Polyethylene (Mylar) tape
Outer sheath white polyvinyl chloride (PVC)

Properties & Identification

Alternative sheath colours are available on request.

Accessories

Connectors
RJ9 Clear



Surface Mount
RJ11 Mini Western
Jack



Glue Stick
40 x 11mm Clear
Part no. GLUESTICK



TELEPHONE – OUTDOOR (ARMOURED)

TELKOM (SAPO) SPEC, MULTICORE PVC, STEEL WIRE ARMOURED



Technical Data

Telephone cable to Telkom spec 268 / 271 or (SAPO) Conductor Size
0.6mm

Conductor Resistance

95.25 Ω/Km (@ 20°C)

Mutual Capacitance

90 nF/km

Capacity Unbalance p-p

400 pF/500m (800Hz Ind. Max)

Insulation Resistance

37.5 MΩ.km @500V DC
(Individual Minimum)

Test Voltage

3,000V DC

Application

Telephone cable is used in PABX's, panel and switch gear connections.
Outdoor, armoured cable is suitable for direct burial.

Construction

Solid annealed bare copper conductor
Core insulation with PVC (Type 02 to BS 6746)
Twisted pairs minimise interference and crosstalk.
Polyethylene (Mylar) tape
Bedding with PVC and galvanised steel wire armouring
Outer sheath white polyvinyl chloride (PVC)
Alternative sheath colours are available on request.

Additional

Available in 500m drums

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

CABLING



RG CABLES (MIL-C-17)

RG COAXIAL CABLES, RG58, RG59, RG213, RG59 + POWER



Technical Data

Coaxial cable per MIL-C-17

Temperatures

Operating: -20°C to 85°C

Insulation Resistance

1,000 MΩ/km

Frequency Range

3 GHz f(max.)

Propagation Velocity

0.66 v/c

Type RG.../U	58	59	213
Part no.	RG58MILC17	COARG59	COARG213
Cable Structure			
Inner conductor Ø (mm)	19 x 0.8	1 x 0.6	7 x 0.75
Insulation Ø (mm)	2.95	3.7	7.24
Outer Conductor	Braid, Tinned, Copper	Braid, Copper	Braid, Copper
Min. bending radius (mm)	25	30	50
Outer Ø (mm)	21.0	26.0	10.3
Electrical Characteristics			
Impedance (Ω)	50 ± 2	75 ± 3	50 ± 2
Attenuation at 20°C	(db/100m)	(db/100m)	(db/100m)
100 MHz	17	11.5	7
200 MHz	24	16.5	10.2
500 MHz	39	27	17
800 MHz	51	35	23
1000 MHz	56	41	-
Capacitance pF/m	101	67	101

Construction

Inner conductor as per specification below

PE insulation

Braided screen with 95% coverage

Black outer jacket with PVC

Properties & Identification

R=Radio, G=Guide, U=Utility

Fire retardant as per IEC 60332-1

Conforms to RoHS directive

Application

Used with transmitters, receivers, computers, radio, video and in high frequency transmission.

Additional

Available in 500m wooden drums and 100m coils.

Accessories

Connectors
RG59 6mm Male or Female
Crimp or Solder versions



Barrel Connectors
RG 59 Barrel Connector
Female to Female



Glue Stick
40 x 11mm Clear
Part no. GLUESTICK



CABLING

FIRE-TECH (FIRE DETECTION) FIRE RESISTANT CABLE (PH30 / PH120)



Technical Data

Fire rated cable conforms to IEC/EN 60332.3-24; EN 60332-3-25
Flame retardant as per IEC/EN 60332.1-2

Temperatures

Operating: 0°C to 80°C
Conductor Max: 180°C
Short Circuit: 350°C

Voltage Rating

U0/U 300/500 V

Min. Bending Radius

10 x OD

Halogen Free

< 0.5mg/g (EN 50267-2-1; IEC 60754.1; IEC 60754.2)

Low Smoke Emission

Transmittance > 60% (IEC 61034-2)

Application

Fire rated cables are designed to ensure circuit continuity in the event of a fire. Primarily intended for use in fire detection and fire alarm systems, emergency lighting circuits or if cables need to operate when fire resistance is required. Suitable for indoor installations. Cable shielded with Aluminium/polyester and unshielded.

Additional

Cable Print: FIRE-TECH 2 x 1.00 100/100V PH30(120)
CEI 20-105 UNI 9795 CEI UNEL 36762 C-4
(U0=400 V) EN 50200 CEI EN 60332-3-25
(Production Batch) CE (Meter marking)

Marking Colour: Blue

Construction

Annealed copper conductors as per EN 60228 Class 5.
Core insulation ceramifiable silicone rubber
Twisted pairs with polyester foil tape
Annealed stranded tinned copper drain wire
Shielded with aluminium/PET foil
Outer sheath thermoplastic halogen free compound (T17) as per EN 50363-3; EN 50267-2-1
Outer sheath colour Red (RAL 3000)

Fire Resistance

Ph30: 120 minutes at 830 C in accordance with EN50200
30 minutes at 950 C in accordance with BS 6387 cat. CWZ
Ph120: 120 minutes at 950 C per BS 6387 cat. CWZ.

Variations

Outer sheath Red or White. Additional colours on request. Alternatively, available in mineral fibre (Mica) construction per EN50200.

x = PH30 / PH120

CABLING



KAMNET LAN - CAT5E UTP

CATEGORY 5 ENHANCED, UNSHIELDED TWISTED PAIRS



Technical Data

Ethernet LAN cable per ISO/IEC 11801 TIA/EIA 5688.2

Temperatures

Operating: -20°C to 85°C

Voltage rating:

Operating: 250V

Test: 1,500V

Min. Bending Radius

5 x OD

Impedance

67 Ω

Capacitance

Conductor: 120 nF/km

Shield: 160 nF/km

Resistance @ 20°C

Insulation: >20 MΩ/km

Electrical: <145 Ω/km

Application

Used in the secondary and tertiary network level for the implementation of services such as Gigabit Ethernet, Fast Ethernet, Ethernet etc.

Construction

F/UTP 4 x 2 x 24AWG

Annealed bare copper conductors (0.51mm ø)

or Copper clad aluminium conductors (0.55mm ø)

Core insulation with polyethylene compound

Outer sheath with special PVC (RoHS compliant)

Properties & Identification

Flame retardant as per IEC 60332-41

Available in solid or stranded bare copper or copper clad aluminium conductors.

Standard outer sheath colour Grey RAL 7001

Additional colours available on request: x = Grey (GY), Blue (BU), Green (GN), Yellow (YE), Red (RD), White (WH).

Also available in Black outer sheath with UV Protection

Accessories

Connectors

RJ45 Cat5 Unshielded
Part no. RJ455EUTP-CL



Boots

RJ45 Colour Coded
Part no. RJ456EBT-x



Inline Connectors

RJ45 Unshielded
Part no. RJ455INLINE-x



Surface Mount
RJ45 Cat5 UTP
Part no. SMBD5EUTP-x



Patch Cord
Cat5 UTP
Pure Copper or CCA



Glue Stick
40 x 11mm Clear
Part no. GLUESTICK



KAMNET LAN - CAT6E UTP

CATEGORY 6 ENHANCED, UNSHIELDED TWISTED PAIRS



Technical Data

Ethernet LAN cable per ISO/IEC 11801 TIA/EIA 5688.2

Temperatures

Operating: -20°C to 70°C

Voltage rating:

Operating: 250V

Test: 1,500V

Min. Bending Radius

8 x OD

Impedance

100 (±15) Ω

Capacitance

56 nF/km

Tensile Strength

13.8MPa

Resistance @ 20°C

Insulation: >50 MΩ/km

Electrical: <74 Ω/km

Application

Used in the secondary and tertiary network level for the implementation of services such as Gigabit Ethernet, Fast Ethernet, Ethernet etc.

Construction

U/UTP 4 x 2 x 24AWG

Annealed bare copper conductors (0.51mm ø)

or Copper clad aluminium conductors (0.55mm ø)

Core insulation with high density, low molecular weight, polyethylene compound (LDPE) (OD: 1.05mm (±0.05mm))

Outer sheath with special PVC (RoHS compliant) (OD: 6.3mm (±0.3mm))
Nylon rip cord

Properties & Identification

Flame retardant as per IEC 60332-41

Available in solid or stranded bare copper as well as solid or stranded copper clad aluminium conductors.

Standard outer sheath colour Grey RAL 7001

Additional colours available on request: x = Grey (GY), Blue (BU), Green (GN), Yellow (YE), Red (RD), White (WH).

Also available in Black outer sheath with UV Protection

Accessories

Connectors

RJ45 Cat6 Unshielded
Part no. RJ456EUTP-CL



Boots

RJ45 Colour Coded
Part no. RJ456EBT-x



Inline Connectors

RJ45 Shielded
Part no. RJ456INLINE-x



Surface Mount

RJ45 Cat6 UTP
Part no. SMBD6EUTP-x



Patch Cord

Cat6 UTP
Pure Copper or CCA



Glue Stick

40 x 11mm Clear
Part no. GLUESTICK



CABLING



KAMNET CAT5E FTP

CATEGORY 5 ENHANCED, SHIELDED TWISTED PAIRS



Technical Data

Ethernet LAN cable per ISO/IEC 11801 TIA/EIA 5688.2

Temperatures

Operating: -20°C to 85°C

Voltage rating:

Operating: 250V

Test: 1,500V

Min. Bending Radius

5 x OD

Impedance

67 Ω

Capacitance

Conductor: 120 nF/km

Shield: 160 nF/km

Resistance @ 20°C

Insulation: >20 MΩ/km

Electrical: <145 Ω/km

Construction

U/FTP 4 x 2 x 24AWG

Annealed bare copper conductors (0.51mm ø)

or Copper clad aluminium conductors (0.55mm ø)

Core insulation with high density polyethylene compound

Solid tinned copper drain wire (Cu version) or tinned copper clad aluminium (CCA version).

Screened with aluminium/polyester foil tape (100% coverage with 25% overlap)

Outer sheath with special PVC (RoHS compliant)

Properties & Identification

Flame retardant as per IEC 60332-41

Available in solid or stranded bare copper or copper clad aluminium conductors.

Standard outer sheath colour Grey RAL 7001

Additional colours available on request: x = Grey (GY), Blue (BU), Green (GN), Yellow (YE), Red (RD), White (WH).

Also available in Black outer sheath with UV Protection

Application

Used in the secondary and tertiary network level for the implementation of services such as Gigabit Ethernet, Fast Ethernet, Ethernet etc.

KAMNET CAT6E FTP

CATEGORY 6, OVERALL FOIL SCREENED TWISTED PAIRS



Technical Data

Ethernet LAN cable per ISO/IEC 11801 TIA/EIA 5688.2

Temperatures

Operating: -20°C to 70°C

Voltage rating:

Operating: 250V

Test: 1,500V

Min. Bending Radius

8 x OD

Impedance

100 (±15) Ω

Capacitance

56 nF/km

Tensile Strength

13.8 Mpa

Resistance @ 20°C

Insulation: >20 MΩ/km

Electrical: <74 Ω/km

Construction

F/UTP 4 x 2 x 24AWG

Annealed bare copper conductors (0.51mm ø)

or Copper clad aluminium conductors (0.55mm ø)

Core insulation with high density, low molecular weight, polyethylene compound (LDPE) (OD: 0.9mm (±0.05mm))

Twisted pairs assembled around a cross-filler

Solid tinned copper drain wire (Cu version) or copper clad aluminium (CCA version).

Screened with aluminium/polyester foil tape (100% coverage with 25% overlap)

Outer sheath with special 90 C PVC (RoHS compliant) (OD: 5.8mm (±0.2mm)) Nylon rip cord

Properties & Identification

Flame retardant as per IEC 60332-41

Available in solid or stranded bare copper as well as solid or stranded copper clad aluminium conductors.

Standard outer sheath colour Grey RAL 7001

Additional colours available on request: x = Grey (GY), Blue (BU), Green (GN), Yellow (YE), Red (RD), White (WH).

Also available in Black outer sheath with UV Protection

Application

Used in the secondary and tertiary network level for the implementation of services such as Gigabit Ethernet, Fast Ethernet, Ethernet etc. The foils screen shields the cable from EMI and the cable is therefore suitable for use in tight cable channels and near power cables or machinery.

CABLING



FIBRE OPTIC CABLE - HDD

HEAVY DUTY DUCT, SINGLE, MULTI-MODE AND COMPOSITE



Technical Data

Fibre fully comply with:
ITU-T Specifications for the relevant fibre type used in these cables.
The blown or hauled duct cable is designed for blown duct applications.
The cable's non-metallic construction makes it immune to lightning.
Excellent optical reliability is ensured by the Thixotropic gel filling in the tubes which provide protection against vibration.
IBIDA, PLP or Powertel to be consulted for accessories for this type of cable.

Cable

Central Strength Member	Class reinforced plastic
Peripheral Strength Member	Water blocking glass yarn
Filler Material	Natural polyethylene

Polyethylene Sheath

Diameter (mm) Nominal	9.4	9.4	9.4	9.4	10.8	12.4	15.4
Weight (kg/km) Nominal	66	66	66	66	91	118	189
Outer Sheath	(Black, UV stabilized) or coloured (no stripe)						
Material	Polyethylene						
Radial thickness	Nominal 1.6mm						

Fibre Identification

Fibre identification	1.Blue 2.Orange 3.Green 4.Brown 5.Grey 6.White
Loose tube identification	1.Blue 2.Orange 3.Green 4.Brown 5.Grey 6.White
Shipping length	(Single Mode) 2000m to 6000m (Multi Mode) 2000m to 4000m

Construction

GRP, water blocking binding yarns, fibre optics in PBT tubes filled with Thixotropic gel, water blocking glass yarn, Polyethylene / LSZH outer sheath.

No. of Fibres	8	12	18	24	48	72	96	144
Fibre per tube	8	6/12	6	6/12	12	12	12	12
No. of Elements	4	4	4	4	4	6	8	12
No. of tubes	1	2/1	3	4/2	4	6	8	12
No. of fillers	3	2/3	1	0/2	0	0	0	0
Material of tubes	PBT (Polybutylene terephthalate)							
Radial thickness	Nominal 0.35mm							

Physical Properties

Allowable tension during installation (N)	1200	1200	1200	1200	1200	1200	1393	2220
After installation bending radius	600	600	600	600	600	600	600	600
Bending radius after installation	10 x Cable Diameter							
Bending radius during installation	20 x Cable Diameter							
Crush resistance (50mm x 50mm plates for 1 min)	2500 N							
Impact Tes (2Nm/25mm ANVIL)	2 X 3 impacts 100mm apart							
Water penetration (24 hours)	3 meter							
Temperature range	-20 / +70°C							

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

FIBRE OPTIC CABLE - CST

CST DOUBLE JACKET RODENT PROOF – SINGLE, MULTI -MODE OR COMPOSITE



Technical Data

Fiber fully comply with:
ITU-T Specifications for the relevant fibre type used in these cables.
The blown or hauled duct cable is designed for blown duct applications.
The corrugated plastic clad steel tape armoured cable is suitably protected against rodent attack and will provide protection for alternative applications where the cable is exposed to abnormal crushing or impact forces during installation or service.

Armouring (Corrugated Copolymer Steel Tape)

Radial thickness	Nominal 0.25mm
	Cable
Central strength member	Class reinforced plastic
Peripheral strength member	Water blocking glass / aramid yarn
Filler material	Natural polyethylene

Polyethylene Sheath

Diameter (mm) Nominal	14.8	14.8	14.8	14.8	16.2	17.8	20.8
Weight (kg/km) Nominal	184	184	184	185	222	265	363
Outer Sheath	Black or coloured (no stripe)						
Material	Polyethylene						
Radial thickness	Nominal 1.6mm						

Low Smoke Zero Halogen (LSZH) Sheath

Diameter (mm) Nominal	16.0	16.0	16.0	16.0	17.4	19.0	22.0
Weight (kg/km) Nominal	254	254	254	255	299	350	462
Outer Sheath	Black or coloured (no stripe)						
Material	Low smoke zero halogen (LSZH)						
Radial thickness	Nominal 2.0mm						

Construction

GRP, water blocking binding yarns, fibre optics in PBT tubes filled with Thixotropic gel, water blocking glass yarn, Polyethylene / LSZH sheath. CST Provides excellent moisture barrier and the cable is further protected against moisture ingress by a water blocking tape under the CST. CST Provides Rodent attack resistance. Longitudinal CST tape prevents cable spiralling, twisting and kinking during installation. IBIDA, PLP, or Powertel to be consulted for accessories for this type of cable.

No. of Fibres	8	12	24	48	72	96	144
Fibre per tube	4/8	6	6	12	12	12	12
No. of Elements	4	4	4	4	6	8	12
No. of tubes	2	2	4	4	6	8	12
No. of fillers	2	2	0	0	0	0	0
Material of tubes	PBT (Polybutylene terephthalate)						

Physical Properties

Allowable tension during installation (N)	2171	2171	2171	2171	2611	3123	4000
After installation bending radius	599	600	600	600	600	600	600
Bending radius (4 turns x 10 cycles)	12 x Cable Diameter						
Crush resistance (100mm) x 100mm plates for 1 min)	4000 N						
Impact Test (4Nm/25mm ANVIL)	2 x 3 impacts 100mm apart						
Water penetration (24 hours)	3 meter						
Temperature range	-20 / +70°C						

Fibre Identification

Fibre identification	1.Blue 2.Orange 3.Green 4.Brown 5.Grey 6.White
Loose tube identification	1.Blue 2.Orange 3.Green 4.Brown 5.Grey 6.White
Shipping length	(Single Mode) 2000m to 6000m (Multi Mode) 2000m to 4000m

OAM DEF SPEC (MYLAR) FOIL-TECH OVERALL ALUMINIUM-MYLAR SCREENED PAIRS



Technical Data

Aluminium-Mylar screened instrumentation cable in accordance with DEF STAN 61-12

Temperature Range

-15°C / + 70°C

Voltage Rating

U/U 300/500V

Test Voltage

1,500V

Min. Bending Radius

10 x OD

Application

Multicore flexible cables designed for high density wiring between components, instruments and electronic equipment. They are used in aircraft, process control systems, computers, data processors, military vehicles and military equipment.

Construction

Annealed tin copper conductors (Class 5 Stranded)

Core insulation of special PVC (T12) (Y12)

Cores, twisted pairs, cabled in concentric layers

Stranded tinned copper drain wire

100% Shield coverage with aluminium /PET foil

Outer sheath of special PVC (TM2) (YM2)

Properties & Identification

Outer sheath colour Grey (RAL 7001)

Flame retardant as per IEC 60332-1-2; EN 60332-1-2

As per Def Stan 61-12 Part 4

Additional

This cable is also available in IOAM (Individually and Overall Aluminium-Mylar).

Large pair sizes are only available by special manufacture.

Marking

0.22MM X 2 PR FOIL-TECH OAM (Meter.)



PVC CONTROL CABLE

FLEXIBLE MULTICORE, SPECIAL PVC, 300/500V



Technical Data

Multicore control cable with special PVC insulation and jacket

Temperatures

Fixed: -40°C to 80°C

Flexing: -5°C to 70°C

Voltage Rating

U0/U 300/500V

Test Voltage

3,000V

Min. Bending Radius

Fixed: 3 x OD

Occasional flexing: 10 x OD

Flexing application: 15 x OD

Application

Control cable is suitable for measuring and monitoring in machine tool manufacturing, plant engineering, power stations, heating and air conditioning systems, refrigeration plants, office equipment machines and installations for data processing. The cable is used in dry, damp and wet environments at medium mechanical stress. It is suitable for flexible, but not continuously moving applications, without tensile load or compulsory guidance, as well as for fixed laying.

Construction

Flexible bare copper conductors per CEI 20-29 Class 5 and DIN VDE 0295 K5

PVC Insulation compound type T11 per CEI 20-11 and VDE 0207 with special mechanical resistance.

Black numbered cores with or without green yellow core

Outer jacket in PVC TM2 per CEI 20-11 and VDE 0207

Properties & Identification

QA and testing as per ISO 9001 – 2000 CSQ-IMQ (EQ-NET)

Flame retardant, Test method B per DIN VDE 0472 part 804 and IEC 60332-1 per our VDE Reg. No. 7097

Oil resistant per DIN EN 50290-2-22 resp. VDE 0819-102, TM54.

The cable conforms to Low Voltage Directive (LVD) 2006/95/EC CE.

Additional

Available in drums, coils or cut to size (conditions apply).

PVC SCREENED CONTROL CABLE

FLEXIBLE MULTICORE, BRAIDED SCREEN, SPECIAL PVC, 300/500V



Technical Data

EMC compliant control cable with numbered cores. Low space requirement due to compact design.

Temperatures

Fixed: -40°C to 80°C

Flexing: -5°C to 70°C

Voltage Rating

U0/U 300/500V

Test Voltage

3,000V

Min. Bending Radius

Fixed: 3 x OD

Occasional flexing: 10 x OD

Capacitance

A/A ca. 120nF/km

A/S ca. 160nF/km

Inductance

Ca. 0.65mH/km

Application

The application for control cable with braided screen includes all electrical systems in dry, damp or wet environments, especially in industrial and/or EMC-critical installations. It is suitable for fixed installation, but also for flexible applications under conditions of sporadic, not continuously returning movement on or in machinery, appliances, rail vehicles, ventilation, air-conditioning systems, office machines and industrial plants. Suitable for applications with low mechanical stress.

Construction

Flexible bare copper conductors per CEI 20-29 Class 5 and DIN-VDE 0295 K5

PVC Insulation compound type TI1 per CEI 20-11 and VDE 0207 with special mechanical resistance.

Black numbered cores with or without green yellow core Polyester tape
Tinned copper braided screen.

Properties & Identification

Flame retardant, Test method B per IEC 60332-1

Adapted to DIN VDE 0245 and 0281

Conforms to Low Voltage Directive (LVD) 2006/95/EC CE

Per our VDE Reg. 8154

Additional

Available in drums, coils or cut to size (conditions may apply).

INSTRUMENTATION – ARMoured & UNARMoured

MULTIPAIR XLPE, OAM / IOAM SCREENED, ARMoured (APL / SWA) / UNARMoured



Technical Data

Screened instrumentation cable with APL or SWA.

Voltage Rating

U0/U 300/500V

Test Voltage

1,500V

Temperature Rating

Ground up to 90%

Electrical Parameters

Conductor (mm)	Resistance (Ω/Km)	Capacitance (pF/m)		Inductance (mH/Km)
		Mutual	Ground	
0.5	39.00	100	200	0.68
1.0	13.30	120	240	0.61
1.5	13.30	130	260	0.65

FR (Flame Retardant)

LH (Low Halogen Blue Stripe)

HFC (Halogen Free White Stripe)

Application

Used for transmission of analogue and digital signals in process control systems. Indoor and outdoor installations, dry or damp conditions, on racks and in conduits. Not allowed for direct connection to low impedance source. It is recommended for direct burial.

Additional

Minimum order quantities may apply.

Construction

Stranded annealed copper (SANS 1411, Part 1, Class 4)

Core insulation with cross-linked polyethylene compound in accordance with SANS 1411, Part 4

Core identification black and white twisted pairs, numbered alpha and numerically at regular intervals

IOAM: Each pair / triad is individually screened with aluminium / polyester tape and drain wire (0.5mm² stranded tinned copper wire) or

OAM: Screen with overall aluminium/polyester tape with annealed tinned copper drain wire.

APL: Bedding sheath and flame-retardant UV aluminium polyethylene laminate for protection. Tinned copper drain wire or

SWA: Bedding sheath and armoured with galvanised steel wire for protection.

Outer sheath with flame retardant Polyvinyl chloride (PVC) compound with temperature rating up to p to 90 C in accordance with SANS 1411, Part 2, type 5S.

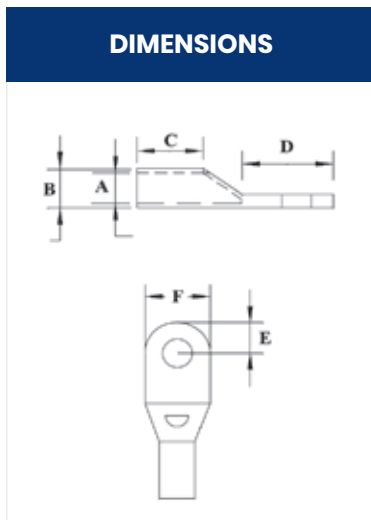
CABLE ACCESSORIES: LUGS & FERRULES

LUGS FOR COPPER CONDUCTOR / CABLE

Note:

1. The nominal area of the circular stranded conductor (Table 1) is that of the nominal lug or ferrule size.
2. For flexible cables the next highest lug or ferrule size in relation to area (Table 1) must be used.
3. For compacted cable the heavy duty lugs and ferrules as shown in Tables 2 and 5 must be used.

- * Hole position to be specified by customer
- ** Stud sizes will be to customer requirements
- *** Use indent compression for Flexible Stranded



Cat No	Stock Code	Typical Conductors			mm	Nominal Dimensions mm						
		Nominal Lug Size mm ²	Circular Stranded mm ²	Flexible Stranded *** mm ²		Barrel			Spade			
						A	B	C	D	E	F	
						I.D	O.D	Length	Length	Hole Pos.	Width	
1.5/3	LS0010	1.5	3/0.82	1	3				9	4.5	7	
1.5/4	LS0020				4	1.9	3.8	7	12	4.5	7	
1.5/5	LS0030				5				12	4.5	8	
1.5/6	LS0040				6				13	5.5	9	
2.5/3	LS0060	2.5	7/0.69	1.5	3				8.5	4.5	7	
2.5/4	LS0070				4				12	4.5	7	
2.5/5	LS0080				5	2.4	3.9	7.3	12	4.5	9	
2.5/6	LS0090				6				13	5.5	9.5	
2.5/8	LS0100				8				15	7.5	12	
4/3	LS0110	4	7/0.88	2.5	3				9	4.5	7	
4/4	LS0120				4				12	4.5	7	
4/5	LS0130				5	2.8	4.7	8	12	4.5	8.5	
4/6	LS0140				6				13	5.5	10	
4/8	LS0150				8				17	6.5	13	
4/10	LS0160				10			11	19	7.5	14	
6/4	LS0170	6	7/1.08	4	4				12	4.5	7.5	
6/5	LS0180				5				12	4.5	8.5	
6/6	LS0190				6	3.4	5.3	8.5	13	5.5	9.5	
6/8	LS0200				8				9.3	17	7	13
6/10	LS0210				10			11	19	7.5	15	
10/5	LS0220	10	7/1.38	6	5				10.5	12	4.5	9
10/6	LS0230				6				10.5	13	6	10
10/8	LS0240				8	4.4	6.3	11	17	7.5	13	
10/10	LS0250				10				11	19	7.5	15
10/12	LS0260				12			12	20	10	19	
16/5	LS0270	16	7/1.79	10	5				13	5.5	10.5	
16/6	LS0280				6				13	5.5	11	
16/8	LS0290				8	5.5	7.6	12	18	7.5	13	
16/10	LS0300				10				20	7.5	15	
16/12	LS0310				12				25	10.5	18	
16/16	LS0320				16				27	13	24	
25/6	LS0330	25	19/1.33	16	6				16	6	14	
25/8	LS0340				8				17	8	14	
25/10	LS0350				10	6.9	9	15	18	8	16	
25/12	LS036				12				21	11	18	
25/16	LS0370				16				27	13	24	
35/6	LS0380	35	14/1.57	25	6				15	18	8	16
35/8	LS0390		8					15	18	9	16	
35/10	LS0400		10		8.2	10.7	15	19	9	16		
35/12	LS0410		12					15	22	10	18	
35/16	LS0420		19/1.57		16				16	30	13	24

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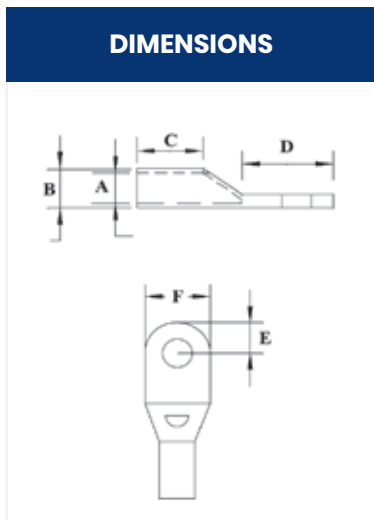
CABLE ACCESSORIES: LUGS & FERRULES

LUGS FOR COPPER CONDUCTOR / CABLE (continued)

Note:

1. The nominal area of the circular stranded conductor (Table 1) is that of the nominal lug or ferrule size.
2. For flexible cables the next highest lug or ferrule size in relation to area (Table 1) must be used.
3. For compacted cable the heavy duty lugs and ferrules as shown in Tables 2 and 5 must be used.

- * Hole position to be specified by customer
- ** Stud sizes will be to customer requirements
- *** Use indent compression for Flexible Stranded

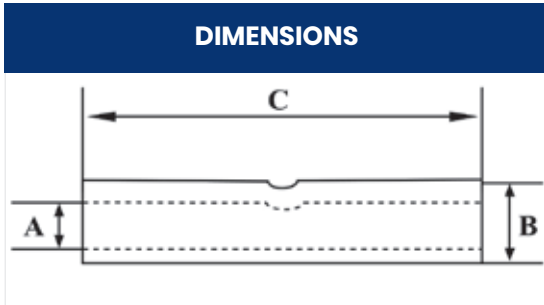


Cat No	Stock Code	Typical Conductors			Stud Size mm	Nominal Dimensions mm					
		Nominal Lug Size mm ²	Circular Stranded mm ²	Flexible Stranded *** mm ²		Barrel			Spade		
						A	B	C	D	E	F
				I.D	O.D	Length	Length	Hole Pos.	Width		
50/6	LS0430	50	19/1.82	35	6		16	17	8	18	
50/8	LS0440				8		16	17	9	18	
50/10	LS0450				10		17	24	10	20	
50/12	LS0460		12		10	12.8	18	24	10	20	
50/16	LS0470		16			18	30	13	26		
50/20	LS0480		20			18	30	13	26		
70/8	LS0490	70	18/2.25	50	8		20.5	20	9.5	21	
70/10	LS0500		10			21	26	11	22		
70/12	LS0510		12		11.7	15	21	28	12	22	
70/16	LS0520		16			22	32	14	28		
70/20	LS0530		20			22	34	15	30		
95/8	LS0540		90		36/1.86	70	8			24	9.5
95/10	LS0550	10					26	13	26		
95/12	LS0560	12		13.5	17.4		23	28	13	26	
95/16	LS0570	16					32	14	28		
95/20	LS0580	20					36	16	30		
120/10	LS0590	120		36/2.08	70/95		10			26	12
120/12	LS0600		12	15.5		19.8	26	28	12	28	
120/16	LS0610		16				32	14	30		
120/20	LS0620		20				36	16	32		
150/10	LS0630	150	36/2.34	95/120	10			31	12	31	
150/12	LS0640		12		17	22	27	33	16	32	
150/16	LS0650		16				35	16	32		
150/20	LS0660		20				36	16	32		
185/10	LS0670	185	37/2.58	120/150	10			29	12.5	34	
185/12	LS0680		12		19	24.4	29	31	16	34	
185/16	LS0690		16				34	16	36		
185/20	LS0700		20				40	19	36		
240/10	LS0710	240	61/2.30	150/185	10			36	16	40	
240/12	LS0720		12		21.5	27.7	33	36	16	40	
240/16	LS0730		16				38	20	40		
240/20	LS0740		20				42	20	40		
300/0	LS0745	300	61/2.52	185/240				45	*	45	
300/10	LS0750				10			35	15	45	
300/12	LS0760				12	24.5	31.3	35	35	15	45
300/16	LS0770				16			45	15	45	
300/20	LS0780				20			45	18	45	
400/0	LS0790				400	61/2.91	240/300		27.5	35.6	41
400/16	LS0795				16			47	24	51	
500/0	LS0800	500	91/2.67	300/400	**	31.6	40	41.5	54	*	58
630/0	LS0810	630	127/2.54	400/500	**	34.5	44.6	53	65	*	64
800/0	LS0820	800	127/2.87	630	**	40	51.2	68	75	*	73
1000/0	LS0830	1000	127/3.22		**	44	56.6	75	75	*	81

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CABLE ACCESSORIES: LUGS & FERRULES

HEAVY DUTY FERRULES FOR COPPER COMPACTED XLPE CABLE



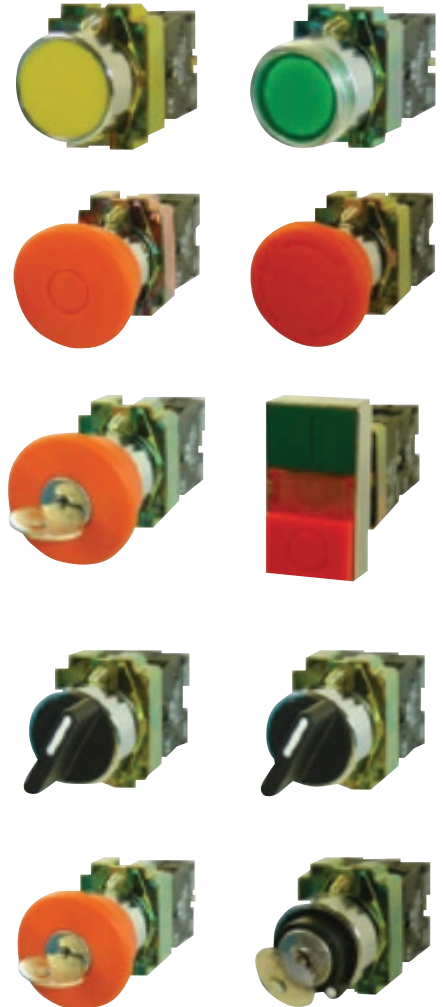
Cat No	Stock Code	Nominal Dimensions mm			Typical Conductors Circular Stranded mm	Nominal Sleeve Size mm ²
		A I.D	B O.D	C Length		
F1.5	FS0010	1.9	3.8	13.0	03/0.82	1.5
F2.5	FS0020	2.4	3.9	14.0	7/0.69	2.5
F4	FS0030	2.8	4.7	16.0	7/0.86	4
F6	FS0040	3.4	5.3	18.0	7/1.08	6
F10	FS0050	4.4	6.3	20.0	7/1.38	10
F16	FS0060	5.5	7.6	22.0	7/1.79	16
F25	FS0070	6.9	9	25.0	18/1.33	25
F35	FS0080	8.2	10.7	28.0	18/1.57	35
F50	FS0090	10	12.8	31.0	19/1.82	50
F70	FS0100	11.7	15	35.0	10/2.19	70
F95	FS0110	13.5	17.4	39.0	37/1.90	95
F120	FS0120	15.5	19.8	43.0	37/2.10	120
F150	FS0130	17	22	48.0	37/2.30	150
F185	FS0140	19	24.4	54.0	37/2.58	185
F240	FS0150	21.5	27.7	60.0	61/2.30	240
F300	FS0160	24.5	31.3	67.0	61/2.52	300
F400	FS0170	27.5	35.6	80.0	62/2.91	400
F500	FS0180	31.6	40	90.0	91/2.67	500
F630	FS0190	34.5	44.6	110.0	127/2.54	630
F800	FS0200	40	51.2	130.0	127/2.87	800
F1000	FS0210	44	56.6	154.0	127/3.22	1000

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SWITCHES

22MM Ø METAL CONTROL DEVICES - XB2 RANGE

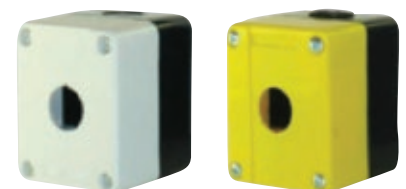
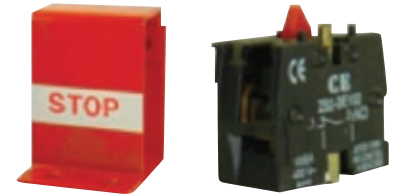
Part Number	Description	Contact Block	Colour
PUSHBUTTONS			
XB2-BA21	22mm Flush Pushbutton	1 NO	Black
XB2-BA31	22mm Flush Pushbutton	1 NO	Green
XB2-BA42	22mm Flush Pushbutton	1 NO	Red
XB2-BA51	22mm Flush Pushbutton	1 NO	Yellow
XB2-BA61	22mm Flush Pushbutton	1 NO	Blue
XB2-B5542	40mm Latching Mushroom Head E/Stop	1 NC	Red
XB2-BW8465	Double Pushbutton + 230V Lamp	1NO/1NC	Red / Green
SELECTOR SWITCHES			
XB2-BD25	Selector - 2 Position (Short Handle)	1NO & 1NC	Black
XB2-BD33	Selector - 3 Position (Short Handle)	2NO	Black
KEY SWITCHES			
XB2-BG25	Key Switch 2 Pos - Key removable in OFF Position	1NO & 1NC	
XB2-BG33	Key Switch 3 Pos - Key removable in OFF Position	2NC	
XB2-BS142	40mm Mushroom Head with Key	1NC	Red
PILOT LIGHTS - 230 VOLT NEON BULBS TYPE BA9			
XB2-BV63	22mm Pilot Light	230	Green
XB2-BV64	22mm Pilot Light	230V	Red
XB2-BV65	22mm Pilot Light	230V	Yellow
XB2-BV66	22mm Pilot Light	230V	Blue



SWITCHES

22MM METAL CONTROL DEVICES

Part Number	Description			
PADLOCKABLE COVER AND AUXILIARY FOR PUSHBUTTONS				
AE/LOCK	Padlockable Device	Hinged cover - Provision for 2 locks		
XB2-BE101	Contact Block			1 NO
XB2-BE102	Contact Block			1 NC
XB2-BOOT	Clear latex Boot for Pushbutton			Clear
LATCHING 3P METAL PUSHBUTTON STATION				
XB2-BD25	Selector - 2 Position (Short Handle)	10 Amp	3 Pole	Grey
XB2-BD33	Selector - 3 Position (Short Handle)	30 Amp	3 Pole	Grey
LED PILOT LIGHTS				
AD22-22DS-B	22mm LED Pilot Light	24V / 110V / 230V / 400V		Blue
AD22-22DS-G	22mm LED Pilot Light	24V / 110V / 230V / 400V		Green
AD22-22DS-R	22mm LED Pilot Light	24V / 110V / 230V / 400V		Red
AD22-22DS-Y	22mm LED Pilot Light	24V / 110V / 230V / 400V		Yellow
AD127-24V	Red Flashing LED + Buzzer	24V		
AD127-230V	Red Flashing LED + Buzzer	230V		
EMPTY CONTROL STATIONS				
XAL-1-Y	Empty Pushbutton Station	1 Hole		Yellow Cover
XAL-1	Empty Pushbutton Station	1 Hole		White Cover
XAL-2	Empty Pushbutton Station	2 Hole		White Cover
XAL-3	Empty Pushbutton Station	3 Hole		White Cover
XAL - 4	Empty Pushbutton Station	4 Hole		White Cover
XAL - 5	Empty Pushbutton Station	5 Hole		White Cover
BLANK LABELS AND 22MM BLANKING PLUGS				
ALABEL	Black plastic label for XB2 range			Black
HP-22-G	22mm Blanking Plug			Light Grey
HP-22-B	22mm Blanking Plug			Black

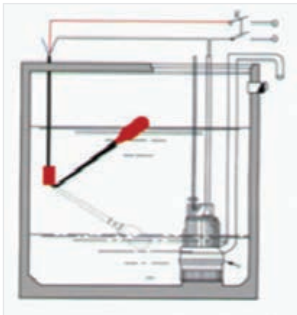


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ENCLOSURES

FLOAT SWITCHES

5 METER FLOAT SWITCH K63/EHT-M515-2/5
 10 METER FLOAT SWITCH K63/EHT-5M515/2/10

Part Number	LP F-A1.15
Switch Type	Micro Switch
Current	15 Amp
Max Temp	70°C
Cable Length	10 Meters, 5 Meters
Resistant to	Sewage Water, Oil, Mild Acids
Description	For Regulation of liquid levels in tanks and cisterns. Commutator Micro Switch ball actuated. Suited for the control of high and low levels of liquid with one switch.
Voltages	320 VAC
Diagram	



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ENCLOSURES

ELECTRIC ORANGE ONLY



XJBS-A wall mounting steel enclosures is made from sheet steel, designed to be assembled with various electrical components according to different control function requirements.

Construction

Material

- Body: 1.2mm sheet steel till size XJBS-A 8060/20 then 1.5mm
- Mounting plate: 1.5mm sheet steel till size XJBS-A 8060/20 then 2.0mm
- Door: 1.2mm sheet steel till size XJBS-A 8060/20 then 1.5mm

Surface finish

- Body and door: Epoxy polyester powder coating textured
- Mounting plate: Epoxy polyester powder coating flat finish

Color

- Body and door: RAL7032 RAL7035
- Mounting plate: RAL2000 OR galvanized steel
- Protection degree: IP 65
- Against mechanical impacts: IK10



Feature

- Dust and Water proof: Using PU foam Sealing gasket inside to prevent dust and water.
- Door opening angle: 120° by plugging hinges (reinforcing profile is available height from 600mm).

4 hanging walls in the back of the enclosures, installed by the wall mounting brackets which needs to be ordered separately.

METAL ENCLOSURE ELECTRIC ORANGE IP66	
PART NUMBER	DESCRIPTION
K63/STE302015	250X100X150 ELECTRIC ORANGE ENCLOSURE
K63/STE403020	400X300X250 ORANGE ENCLOSURE
K63/STE504025	500X400X250 ORANGE ENCLOSURE
K63/STE 604025	600X400X250 ORANGE ENCLOSURE
K63/STE 705025	700X500X250 ORANGE ENCLOSURE
K63/STE806030	800X600X300 ORANGE ENCLOSURE
K63/STE 10008030	1000X800X300 ORANGE ENCLOSURE
K63/STE 1208030	1200X800X300 ORANGE ENCLOSURE
K63/WALL BRACKET	WALL BRACKET SET
K63/70X50X20	DB Steel ENCLOSURE 2/11 WAY (600*400*200)
K63/403020	DB Steel ENCLOSURE 2/16 WAY (400*300*200)

OTHER SIZES AVAILABLE ON REQUEST.

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

ENCLOSURES

DISTRIBUTION BOARDS (TINTED WINDOW)

DISTRIBUTION BOARDS (TINTED WINDOW)	
PLASTIC FLUSH	PVC TRAY
K41/DB-8W-P-F	DB 8 WAY PLASTIC FLUSH
K41/DB-12W-P-F	DB 12 WAY PLASTIC FLUSH
K41/DB-15W-P-F	DB 15 WAY PLASTIC FLUSH
PLASTIC SURFACE	PVC TRAY
K41/DB-8W-P-S	BD 8 WAY PLASTIC SURFACE
K41/DB-12W-P-S	BD 12 WAY PLASTIC SURFACE
K41/DB-15W-P-S	BD 15 WAY PLASTIC SURFACE



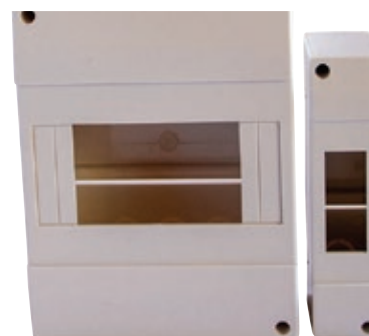
Rated Voltage/Rated Current: 690V/50Hz
 Material: Cover-PC
 Body-ABS
 Color of cover plate: Brown / white
 Protection grade: IP32
 Tested and approved to EN60947-1
 CE Certified
 Din rail connection according to En50022
 Supplied with removable earth/neutral bar

PVC SHROUDS DIN BREAKERS

PVC SHROUDS DIN BREAKERS	
K63/XJRD-SHROU	SHROUD 1 WAY
K63/XJRD-SHROU	SHROUD 2 WAY
K63/XJRD-SHROU	SHROUD 4 WAY
K63/XJRD-SHROU	SHROUD 6 WAY

XJRD MCB BOX

Dimension L*W*H(MM)	Code
34*130*60	XJDR-1 WAYS
52*130*60	XJDR-2 WAYS
87*130*60	XJDR-4 WAYS
125*160*60	XJDR-6 WAYS
160*160*60	XJDR-8 WAYS



ENCLOSURES

BUSBAR DIN RAIL

SINGLE PHASE 1METER K63 / SP63A-5P
THREE PHASE 1METER K63 / TP63A-3P



CHANGEOVER SWITCHES ENCLOSED

SINGLE PHASE ENCLOSED WITH PILOT LIGHT INDICATION
K63/LW26-63/1P&N-EP 2POLE
K63/LW26-63/4-EP 4 POLE



PVC ENCLOSURE IP65 GREY

PVC ENCLOSURE IP65 GREY	
K63/XJDA1108045	110X80X45 PVC ENCLOSURE GREY
K63/XJDA125125100	125X125X100 PVC ENCLOSURE GREY
K63/XJDA17014095	170X140X95 PVC ENCLOSURE GREY
K63/XJDA175175100	175X175X100 PVC ENCLOSURE GREY
K63/XJDA200150130	200X150X130 PVC ENCLOSURE GREY
K63/XJDA250150130	250X150X130 PVC ENCLOSURE GREY
K63/XJDA280190130	280X190X130 PVC ENCLOSURE GREY

PVC ENCLOSURE IP65 GREY	
K63/XJDB10010050	100X100X50 PVC ENCLOSURE GREY
K63/XJDB15011070	150X110X70 PVC ENCLOSURE GREY
K63/XJDB15011080	150X110X80 PVC ENCLOSURE GREY
K63/XJDB24019090	240X190X90 PVC ENCLOSURE GREY
K63/XJDB250200140	250X200X140 PVC ENCLOSURE GREY
K63/XJDB300220170	300X220X170 PVC ENCLOSURE GREY
K63/XJDB380300120	380X300X120 PVC ENCLOSURE GREY
K63/XJDB380300170	380X300X170 PVC ENCLOSURE GREY



Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

SWITCHES

XJDB WATERPROOF JUNCTION BOX

PVC ENCLOSURE IP55 GREY	
K63/XJDB10010050	100X100X50 PVC ENCLOSURE GREY
K63/XJDB15011070	150X110X70 PVC ENCLOSURE GREY
K63/XJDB15011080	150X110X80 PVC ENCLOSURE GREY
K63/XJDB24019090	240X190X90 PVC ENCLOSURE GREY
K63/XJDB250200140	250X200X140 PVC ENCLOSURE GREY
K63/XJDB300220170	300X220X170 PVC ENCLOSURE GREY
K63/XJDB380300120	380X300X120 PVC ENCLOSURE GREY
K63/XJDB380300170	380X300X170 PVC ENCLOSURE GREY

Material: ABS
 Screw: PC
 Temperature Range: -40°C - 80°C
 Protection Level: IP 55
 Standard: EN60309



XJDB WATERPROOF ELECTRIC BOX

PVC ENCLOSURE IP65 GREY	
K63/XJDA1108045	110X80X45 PVC ENCLOSURE GREY
K63/XJDA125125100	125X125X100 PVC ENCLOSURE GREY
K63/XJDA17014095	170X140X95 PVC ENCLOSURE GREY
K63/XJDA175175100	175X175X100 PVC ENCLOSURE GREY
K63/XJDA200150130	200X150X130 PVC ENCLOSURE GREY
K63/XJDA250150130	250X150X130 PVC ENCLOSURE GREY
K63/XJDA280190130	280X190X130 PVC ENCLOSURE GREY

Material: ABS/PC
 Screw: PC
 Temperature Range: -40°C - 80°C
 Protection Level: IP 65
 Standard: EN60309



Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

ENCLOSURES

STEEL LIMIT SWITCHES (TZ RANGE 5A) IP65

STEEL LIMIT SWITCHES (TZ RANGE 5A) IP65	
K41/TZ-8104	NON ADJUSTABLE ROLLER LEVER
K41/TZ-8107	ADJUSTABLE ROD LEVER (WIRE TYPE)
K41/TZ-8108	ADJUSTABLE ROLLER LEVER
K41/TZ-8111	BUTTON PLUNGER
K41/TZ-8112	ROLLER BUTTON PLUNGER
K41/TZ-8122	CROSS BUTTON PLUNGER
K41/TZ-8166	PLASTIC ROD LEVER
K41/TZ-8167	SPRING WIRE LEVER
K41/TZ-8169	CAT WHISKER LEVER



TZ-8104



TZ-8107



TZ-8108



TZ-8111



TZ-8112



TZ-8122



TZ-8166



TZ-8167



TZ-8169

STEEL LIMIT SWITCHES (YXCK RANGE 10A) IP65

STEEL LIMIT SWITCH (YXCK RANGE 10A) IP65	
K41/XCKJ	ADJUSTABLE ROLLER LEVER
K41/XCKJ108	CAT WHISKER STEEL
K41/XCKJ10511	ROLLER LEVER NYLON HEAD
K41/XCKJ1161	PLUNGER
K41/XCKJ167	ROLLER PLUNGER
K41/XCKJ10541M	METAL ADJUSTABLE ROLLER LEVER
K41/XCKJ108M	CAT WHISKER STEEL
K41/XCKJ10531M	METAL ROLLER LEVER
K41/XCKJ121M	ROLLER PLUNGER LEVER
K41/XCKJ10511M	ROLLER LEVER STEEL
K41/ZCK MIZCKD15	LEFT/RIGHT ROLLER LEVER



XCK-J10511



XCK-J10531



XCK-J10541



XCK-J10559



XCK-J108



XCK-J121



XCK-J139



XCK-J161



XCK-J167

Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

SWITCHES

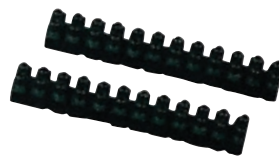
MICRO SWITCH (LXWS5 RANGE)

MICRO SWITCH (LXWS5 RANGE)	
K41/LXW5-11D	SHORT SPRING PLUNGER
K41/LXW5-11G1	LONG HINDGE ROLLER LEVER
K41/LXW5-11G2	SHORT HINDGE ROLLER LEVER
K41/LXW5-11G3	MIDDLE HINDGE ROLLER LEVER
K41/LXW5-11M	PANEL MOUNT PLUNGER
K41/LXW5-11N1	HINDGE LEVER
K41/LXW5-11N220	SHORT HINDGE LEVER
K41/LXW5-11Q1	PANEL MOUNT ROLLER PLUNGER
K41/LXW5-11Q2	PANEL MOUNT CROSS ROLLER PLUNGER
K41/LXW5-1Z	PIN PLUNGER



TERMINAL BLOCKS

TERMINAL BLOCKS H, U(W), V(F) TYPE



Material: made from PA, PE or PP

Item No	L	W	H	A	B	mm ²	VOLT	AMP	Packing
TBS-3A	93	16	12	6	8	4	400V	3A	
TBS-6A	115	15.7	13	6.5	9.5	6	400V	6A	
TBS-10A	126	20.2	15.5	8.4	10.5	10	400V	10A	
TBS-16A	139	23	17.7	10.3	12	12	400V	16A	
TBS-20A	155	25	19.2	11.5	13.5	14	400V	20A	10PCS
TBS-30A	171	26	20.5	12	14.5	16	400V	30A	
TBS-60A	192	30	26	13.5	16.5	25	400V	60A	
TBS-80A	205	33	27	15	17	35	400V	80A	
TBS-100A	250	46	31	22	21	40	400V	100A	

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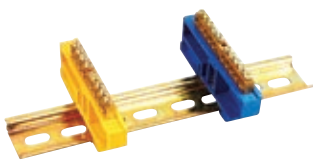
SWITCHES

STRIP CONNECTORS BLACK 12WAY

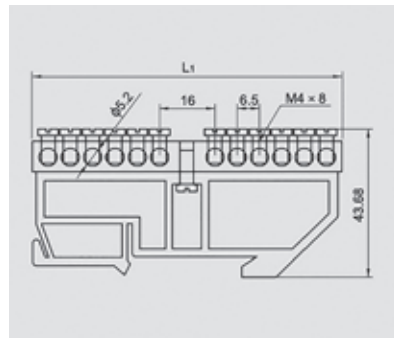
STRIP CONNECTORS BLACK 12WAY	
K63/TB-H06-6A	BLACK 6AMP STRIP CONNECTOR
K63/TB-H10-10A	BLACK 10AMP STRIP CONNECTOR
K63/TB-H15-15A	BLACK 15AMP STRIP CONNECTOR
K63/TB-H15-20A	BLACK 20AMP STRIP CONNECTOR
K63/TB-H15-30A	BLACK 30AMP STRIP CONNECTOR

BRASS TERMINAL BLOCK

S010-0609



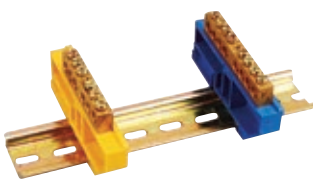
Dimensional Drawing



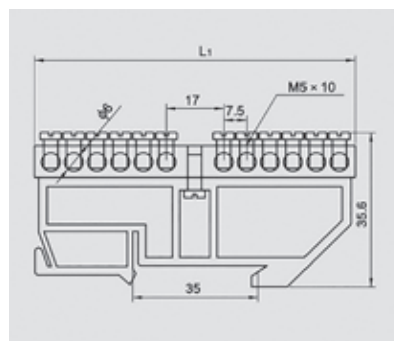
Specification

Way	Mounting Dimensions (L) mm	Overall Dimensions (L _T)mm	Section cross of brass
4	35 x 7.5	88.5 x 12.1	6 x 9
6	35 x 7.5	88.5 x 12.1	6 x 9
8	35 x 7.5	88.5 x 12.1	6 x 9
10	35 x 7.5	88.5 x 12.1	6 x 9
12	35 x 7.5	90.5 x 12.1	6 x 9
14	35 x 7.5	103.5 x 12.1	6 x 9
16	35 x 7.5	116.5 x 12.1	6 x 9

S010-0812



Dimensional Drawing



Specification

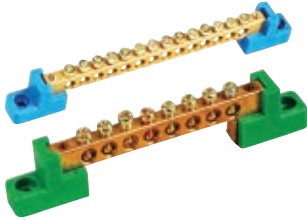
Way	Mounting Dimensions (L) mm	Overall Dimensions (L _T)mm	Section cross of brass
4	35 x 7.5	88.5 x 12.1	8 x 12
6	35 x 7.5	88.5 x 12.1	8 x 12
8	35 x 7.5	88.5 x 12.1	8 x 12
10	35 x 7.5	88.5 x 12.1	8 x 12
12	35 x 7.5	102 x 12.1	8 x 12
14	35 x 7.5	117 x 12.1	8 x 12
16	35 x 7.5	132 x 12.1	8 x 12

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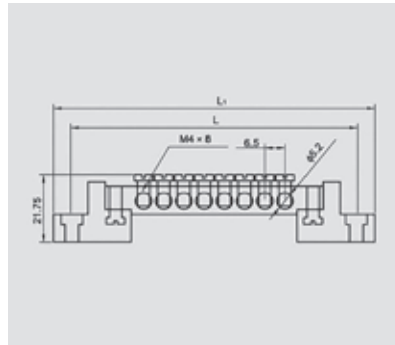
SWITCHES

BRASS TERMINAL BLOCK

S019-0609



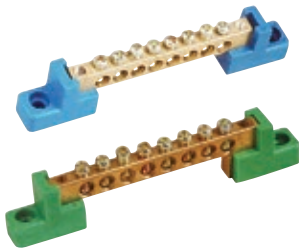
Dimensional Drawing



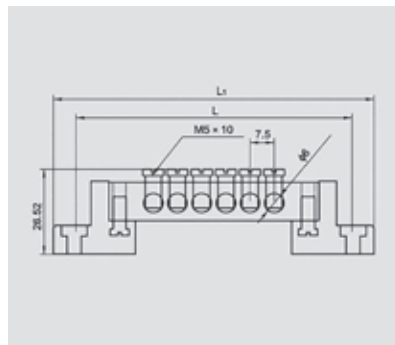
Specification

Way	Mounting Dimensions (L) mm	Overall Dimensions (L ₁)mm	Section cross of brass
4	64.5	76.5 x 12.5	6 x 9
6	77.5	89.5 x 12.5	6 x 9
8	90.5	102.5 x 12.5	6 x 9
10	103.5	115.5 x 12.5	6 x 9
12	116.5	128.5 x 12.5	6 x 9
14	129.5	141.5 x 12.5	6 x 9
16	142.5	154.5 x 12.5	6 x 9

S019-0812



Dimensional Drawing



Specification

Way	Mounting Dimensions (L)mm	Overall Dimensions (L ₁) mm	Section cross of brass
4	71.5	94.5 x 12.5	8 x 12
6	86.5	99.5 x 12.5	8 x 12
8	101.5	114.5 x 12.5	8 x 12
10	116.5	129.5 x 12.5	8 x 12
12	131.5	114.5 x 12.5	8 x 12
14	146.5	159.5 x 12.5	8 x 12
16	161.5	174.5 x 12.5	8 x 12

K63/XP0812A 8+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0812A 12+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0812A 18+2	BRASS TERMINAL BLOCK DIN RAIL

K63/XP0609E 4+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0609E 6+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0609E 8+2	BRASS TERMINAL BLOCKW DIN RAIL
K63/XP0609E 10+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0609E 12+2	BRASS TERMINAL BLOCK DIN RAIL
K63/XP0609E 14+2	BRASS TERMINAL BLOCK DIN RAIL

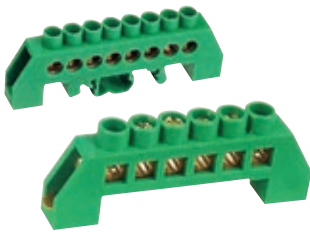
K63/XP06091-6P	6 POLE BRASS TERMINAL BLOCK FOOT MOUNT
K63/XP06091-8P	8 POLE BRASS TERMINAL BLOCK FOOT MOUNT
K63/XP06091-10P	10 POLE BRASS TERMINAL BLOCK FOOT MOUNT
K63/XP06091-12P	12 POLE BRASS TERMINAL BLOCK FOOT MOUNT
K63/XP06091-14P	14 POLE BRASS TERMINAL BLOCK FOOT MOUNT
K63/XP06091-16P	16 POLE BRASS TERMINAL BLOCK FOOT MOUNT

SWITCHES

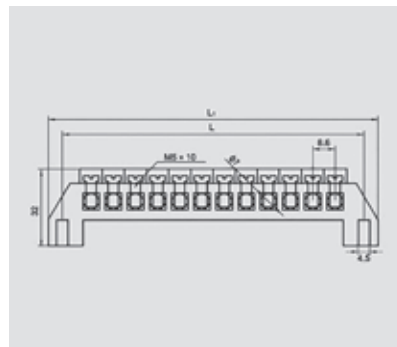
BRASS TERMINAL BLOCKS

K63/XP0609F-7P	7 POLE BRASS TERMINAL BLOCK
K63/XP0609F-10P	10 POLE BRASS TERMINAL BLOCK
K63/XP0609F-12P	12 POLE BRASS TERMINAL BLOCK
K63/XP0609F-15P	15 POLE BRASS TERMINAL BLOCK

S001-0812



Dimensional Drawing



Specification

Way	Mounting Dimensions (L) mm	Overall Dimensions (L)mm	Section cross of brass
7	35 X 7.5	50 X 21	6 x 9
9	35 X 7.5	57 X 21	6 x 9
10	35 X 7.5	71.5 X 21	6 x 9
12	35 X 7.5	84.5 X 21	6 x 9
13	35 X 7.5	91 X 21	6 x 9
15	35 X 7.5	104 X 21	6 x 9

EARTH / NEUTRAL BRASS BAR DIN

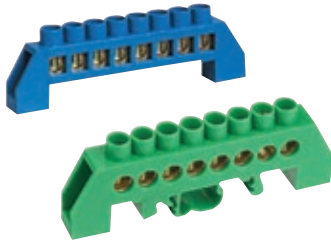
EARTH / NEUTRAL BRASS BAR DIN	
K63/XP0609A-4P-G	4 POLE GREEN EARTH BAR
K63/XP0609A-6P-G	6 POLE GREEN EARTH BAR
K63/XP0609A-8P-G	8 POLE GREEN EARTH BAR
K63/XP0609A-10P-H	10 POLE GREEN EARTH BAR
K63/XP0609A-12P-G	12 POLE GREEN EARTH BAR
K63/XP0609A-4P-BL	4 POLE BLUE EARTH BAR
K63/XP0609A-6P-BL	6 POLE BLUE EARTH BAR
K63/XP0609A-8P-BL	8 POLE BLUE EARTH BAR
K63/XP0609A-10P-BL	10 POLE BLUE EARTH BAR
K63/XP0609A-12P-BL	12 POLE BLUE EARTH BAR
K63/XP0812B--4P-G	4 POLE GREEN EARTH BAR
K63/XP0812B-6P-G	6 POLE GREEN EARTH BAR
K63/XP0812B-8P-G	8 POLE GREEN EARTH BAR
K63/XP0812B-10P-G	10 POLE GREEN EARTH BAR
K63/XP0812B-12P-G	12 POLE GREEN EARTH BAR

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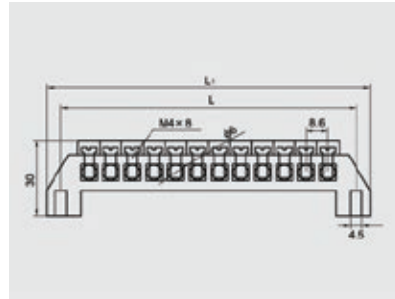
SWITCHES

BRASS TERMINAL BLOCK

S001-0609



Dimensional Drawing



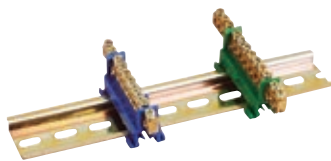
Specification

Way	Mounting Dimensions (L) mm	Overall Dimensions (L ₁)mm	Section cross of brass
4	48.2	59.2 x 11.2	6 x 9
6	65.4	76.4 x 11.2	6 x 9
8	82.6	93.6 x 11.2	6 x 9
10	99.8	110.8 x 11.2	6 x 9
12	117	128 x 11.2	6 x 9

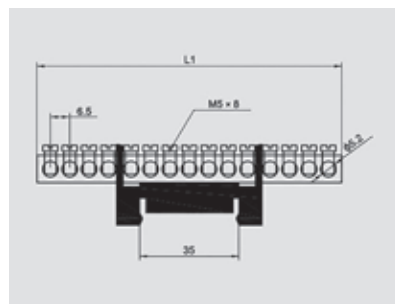
BRASS TERMINAL BLOCK NEUTRAL BAR

BRASS TERMINAL BLOCK NEUTRAL BAR	
K63/XP0812B-4P-BL	4 POLE BLUE NEUTRAL BAR
K63/XP0812B-6P-BL	6 POLE BLUE NEUTRAL BAR
K63/XP0812B-8P-BL	8 POLE BLUE NEUTRAL BAR
K63/XP0812B-10P-BL	10 POLE BLUE NEUTRAL BAR
K63/XP0812B-12P-BL	12 POLE BLUE NEUTRAL BAR

S000-0609



Dimensional Drawing

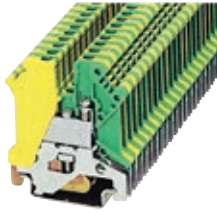


Specification

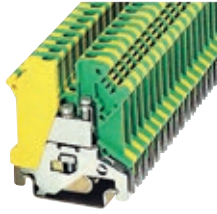
Way	Mounting Dimensions (L) mm	Overall Dimensions (L ₁)mm	Section cross of brass
4	48.2	59.2 x 12.5	8 X 12
6	65.4	76.4 x 12.5	8 X 12
8	82.6	93.6 x 12.5	8 X 12
10	99.8	110.8 x 12.5	8 X 12
12	117	128 x 12.5	8 X 12

SWITCHES

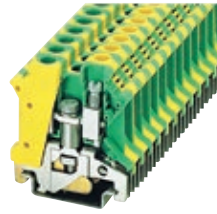
UK TERMINAL BLOCK



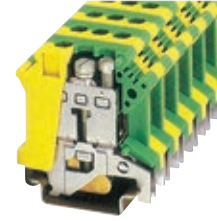
USLKG 4N



USLKG 6N



USLKG 10N



USLKG 16N



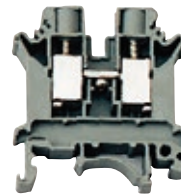
UK 2.5N



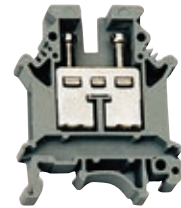
UK 3N



UK 5N



UK 10N



UK 16N

Model	Hard Wire (mm ²)	Soft Wire (mm ²)	Rated Current (A)	Rated Voltage (V)	Dimension (mm)
UK2.5B	0.2-4	0.2-2.5	32	690	6.2 X 42.5 X 42
UK3N	0.2-4	0.2-2.5	32	800	6.2 X 42.5 X 42
UK5N	0.2-6	0.2-4	41	800	6.2 X 42.5 X 47
UK6N	0.2-10	0.2-2.5	57	800	6.2 X 42.5 X 47
UK10N	0.5-16	0.5-10	76	800	10.2 X 42.5 X 47
UK16N	2.5-25	4-16	101	800	12.2 X 42.5 X 54
UK35N	0.75-50	0.75-35	150	1000	15.2 X 50.0 X 62
UKH50	16-50	25-50	150	1000	20 X 70.5 X 83.5
UKH95	25-95	35-95	232	1000	25 X 83 X 97.5
UKH150	35-150	50-150	309	1000	31 X 100 X 118.5

Model	Hard Wire (mm ²)	Soft Wire (mm ²)	Rated Current (A)	Rated Voltage (V)	Dimension (mm)
USLKG2.5	0.2-4	0.2-2.5	32	690	6.2 X 42.5 X 42
USLKG3	0.2-4	0.2-2.5	32	800	6.2 X 42.5 X 47
USLKG5	0.2-6	0.2-4	41	800	6.2 X 42.5 X 47
USLKG6N	0.2-10	0.2-6	57	800	8.2 X 42.5 X 47
USLKG10N	0.5-16	0.5-10	76	800	10.2 X 42.5 X 47
USLKG16N	2.5-25	4-16	101	800	12.2 X 42.5 X 54
USLKG35N	0.75-50	0.75-35	150	1000	15.2 X 50.0 X 62
USLKG50	16-50	25-50	150	1000	20 X 70.5 X 81.5

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SWITCHES

TERMINAL DIN RAIL MOUNT

TERMINAL DIN RAIL MOUNT	
K63/UK2.5B	2.5B TERMINAL BLOCK DIN MOUNT 35MM
K63/UK3A	3A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK5A	5A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK6A	6A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK10A	10A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK16A	16A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK25A	25A TERMINAL BLOCK DIN MOUNT 35MM
K63/UK35A	35A TERMINAL BLOCK DIN MOUNT 35MM

TERMINAL DIN RAIL MOUNT (GREEN/YELLOW)	
K63/USLKG 2.5A	2.5A GREEN YELLOW TERMINAL DIN MOUNT
K63/USLKG3A	3A GREEN YELLOW TERMINAL DIN MOUNT
K63/USLKG5A	5A GREEN YELLOW TERMINAL DIN MOUNT
K63/USLKG6A	6A GREEN YELLOW TERMINAL DIN MOUNT
K63/USLKG10A	10A GREEN YELLOW TERMINAL DIN MOUNT
K63/USLKG16A	16A GREEN YELLOW TERMINAL DIN MOUNT
K63/D-UK2.5	2.5 TERMINAL COVER PLATE
K63/D-UK4/10	4/10 TERMINAL COVER PLATE
K63/D-UKK3/5	3/5 TERMINAL STOPPER
K63/D-DUK4	4 TERMINAL
K63/D-URTK/5	STOPPER DIN RAIL

AMMETER / VOLTMETER/ FREQUENCY METERS

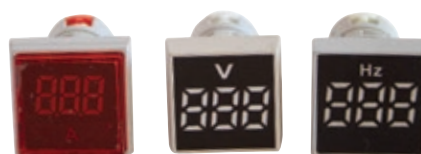
AMMETER / VOLTMETER / FREQUENCY METERS	
K63/VOLT-SQ-B	SQUARE VOLTMETER BLUE 22MM
K63/VOLT-SQ-G	SQUARE VOLTMETER GREEN 22MM
K63/VOLT-SQ-R	SQUARE VOLTMETER RED 22MM
K63/VOLT-SQ-W	SQUARE VOLTMETER WHITE 22MM
K63/VOLT-SQ-Y	SQUARE VOLTMETER YELLOW 22MM
K63/FREQ-W	SQUARE FREQUENCY METER WHITE 22MM
K63/LEAD-1M	1 METER EXTENTION LEAD

Round Also Available

AMMETER / VOLTMETER/ FREQUENCY METERS 22MM HOLE PILOT LIGHT TYPE

AMMETER / VOLTMETER / FREQUENCY METERS 22MM HOLE PILOT LIGHT TYPE	
K63/AMM-SQ-B	SQUARE AMMETER BLUE 22MM
K63/AMM-SQ- G	SQUARE AMMETER GREEN 22MM
K63/AMM-SQ-R	SQUARE AMMETER RED 22MM
K63/AMM-SQ-W	SQUARE AMMETER WHITE 22MM
K63/AMM-SQ-Y	SQUARE AMMETER YELLOW 22MM

Round Also Available



SWITCHES

LOCKABLE WEATHERPROOF ISOLATOR IP65

LOCKABLE WEATHERPROOF ISOLATOR IP65	
K63/UK-20-2P-20A	LOCKABLE ISOLATOR 20AMP 2 POLE IP65
K63/UK-20-2P-35A	LOCKABLE ISOLATOR 35AMP 2 POLE IP65
K63/UK-20-2P-63A	LOCKABLE ISOLATOR 63AMP 2 POLE IP65
K63/UK-20-4P-20A	LOCKABLE ISOLATOR 20AMP 4 POLE IP65
K63/UK-20-4P-35A	LOCKABLE ISOLATOR 35AMP 4 POLE IP65
K63/UK-20-4P-63A	LOCKABLE ISOLATOR 63AMP 4 POLE IP65



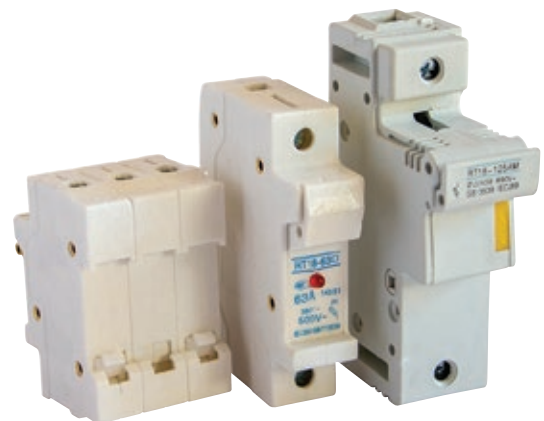
FUSES RF-1038 RANGE

FUSES RF-1038 RANGE	
K63/RF-1038-1A	10X38 FUSE 1AMP
K63/RF-1038-2A	10X38 FUSE 2AMP
K63/RF-1038-6A	10X38 FUSE 6AMP
K63/RF-1038-10A	10X38 FUSE 10AMP
K63/RF-1038-16A	10X38 FUSE 16AMP
K63/RF-1038-232A	10X38 FUSE 32AMP
K63/RF-1451-40A	14X51 FUSE 40AMP
K63/RF-1451-50A	14X51 FUSE 50AMP
K63/RF-1451-63A	14X51 FUSE 63AMP
K63/RF-2258-100A	22X58 FUSE 100AMP
K63/RF-2258-125A	22X58 FUSE 125AMP



FUSE BASES

FUSE BASES	
K63/RT18-32-1P	10X38 FUSE BASE 1POLE WITH INDICATOR
K63/RT18-33-2P	10X38 FUSE BASE 2POLE WITH INDICATOR
K63/RT18-34-3P	10X38 FUSE BASE 3POLE WITH INDICATOR
K63/RT18-63-1P	14X51 FUSE BASE 1POLE WITH INDICATOR
K63/RT18-125-1P	22X58 FUSE BASE 1POLE WITH INDICATOR



Stock and availability upon request. Additional sizes available on request. Data subject to change without prior notice. This data cancels all previous data. Every effort has been made to ensure the accuracy of this data, Kamarossi does not accept responsibility for any errors or omissions.

SWITCHES

TIMER

SUL 181h
SUL 161h



TIME SWITCHES

K63/TS-19-SUL181 H	TIMER ANALOG 24 HOUR 20A
K63/TS-19-SUL181 H	TIMER 24 HOUR 7 DAY
K63/TS-15-TB45	DIGITAL TIMER 16A
K63/AHC-810	WEEKLY PROGRAMMABLE TIMER 16A 24H / 7 DAY DIGITAL



SWITCHES

PLUG IN RELAYS 8 & 11PIN

PLUG IN RELAYS 8 & 11PIN	
K41/MK-2P-B	RELAY 8 PIN 24VAC
K41/MK-2P-E	RELAY 8 PIN 48VAC
K41/MK-2P-F	RELAY 8 PIN 110VAC
K41/MK-2P-M	RELAY 8 PIN 230VAC
K41/MK-2P-Q	RELAY 8 PIN 390VAC
K41/MK-2P-BD	RELAY 8 PIN 24VDC
K41/MK-2P-ED	RELAY 8 PIN 48VDC
K41/ML-3P-B	RELAY 11 PIN 24VAC
K41/ML-3P-E	RELAY 11 PIN 48VAC
K41/ML-3P-F	RELAY 11 PIN 110VAC
K41/ML-3P-M	RELAY 11 PIN 230VAC
K41/ML-3P-BD	RELAY 11 PIN 24VDC
K41/ML-3P-ED	RELAY 11 PIN 48VDC
K41/ML-3P-FD	RELAY 11 PIN 110VDC



RELAY BASES 8 & 11PIN ROUND

RELAY BASES 8 & 11PIN ROUND	
K41/-083A	8 PIN RELAY BASES
K41/PF-113A	11 PIN RELAY BASES



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