

Powerlink Plus



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Powerlink Plus

PERIMETER AND DISTRIBUTION

Powerlink Plus is a busbar trunking system developed to meet the power and data distribution needs of modern offices, schools and laboratories.

A comprehensive range of unique flush fitting accessories and gently curved covers combine to create a visually unrivalled installation. The system offers flexibility to easily adapt to future needs for the installer.

Feature benefits

Choice of 3 profiles

To suit all your skirting and dado requirements

One-piece corner, couplers and end cap covers

Simplifies installation and improves aesthetics

63 amp busbar for plug-on accessories and high protective conductor currents compliance

Quick and easy installation, eliminating the requirement for hard wiring

Unique flush fitting accessories

Provide an unobtrusive finish

Pre-drilled trunking bases

Eliminates the need to measure and drill fixing holes on site thus reducing installation time

Large data cabling capability in outer compartments

For all your communication and data requirements

EMC Screening

Provides an effective screen for computer service cables

Made from 100% PVCu

Powerlink Plus is both robust and easily workable on site

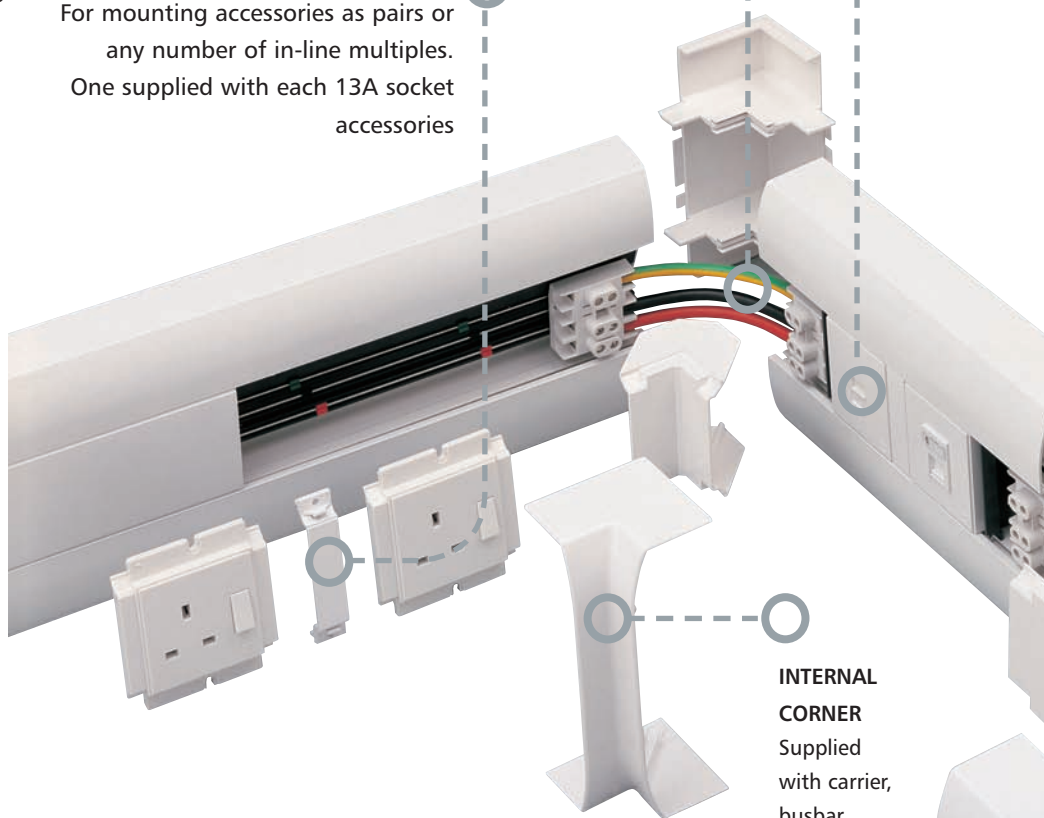


PRE-WIRED CABLE ASSEMBLY

For electrical connection of busbar around corners

ACCESSORY SPACER

For mounting accessories as pairs or any number of in-line multiples. One supplied with each 13A socket accessories



INTERNAL CORNER

Supplied with carrier, busbar shield and outer clip-on cover

CHOICE OF DELIVERY

With Powerlink Plus the choice is yours - hard wiring or an integral 63 amp busbar with power accessories that simply plug into place



EXTERNAL CORNER

Supplied with carrier, busbar shield and outer clip-on cover

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FLUSH FITTING ACCESSORIES

Powerlink Plus™ offers a wide selection of flush fitting accessories, including switch sockets, DP switches, connection units and virtually every type of computer and telecom connector. All power accessories are available as plug-on units or with wire in terminals. If that is not enough, an optional mounting kit will accept virtually any accessory within the entire MK range

MCB/RCD

Housing mounts directly to central compartment and accepts any one or two module product from the MK Sentry range



COUPLER

Joins trunking lengths together and to pre-assembled angles, crossovers or special corners. Supplied with busbar shield

EMC SCREENING

Aluminium screening inserts provide effective screening for computer services cables

END CAP

Neatly finishes runs of trunking. Supplied with screw fix carrier/busbar shield and clip-on cover

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











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
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



FAME YEAR











Product Selector











PERIMETER AND DISTRIBUTION

	COUPLERS	END CAPS	INTERNAL CORNERS	EXTERNAL CORNERS	INTERNAL SPECIAL CORNERS	EXTERNAL SPECIAL CORNERS	INTERNAL 135° CORNERS	EXTERNAL 135° CORNERS	FLAT ANGLES	FLAT TEES	FLAT CROSSES
TRUNKING WITH AND WITHOUT 63 AMP BUSBARS 	 K1908 WHI 5 K1908 CHA 5	 K1904 WHI 1 K1904 CHA 1	 K1905 WHI 1 K1905 CHA 1	 K1906 WHI 1 K1906 CHA 1	 K1965 WHI 1 K1965 CHA 1	 K1966 WHI 1 K1966 CHA 1	 K1965 WHI 135 1 K1965 CHA 135 1	 K1966 WHI 135 1 K1966 CHA 135 1	 K1992 WHI 1 K1992 CHA 1 UP K1992 WHI 1 K1992 CHA 1 DOWN	 K1972 WHI 1 K1972 CHA 1 DOWN K1973 WHI 1 K1973 CHA 1 UP	 K1974 WHI 1 K1974 CHA 1
	K1945 WHI 5 K1945 CHA 5	K1944 WHI 1 K1944 CHA 1	K1911 WHI 1 K1911 CHA 1	K1912 WHI 1 K1912 CHA 1	K1961 WHI 1 K1961 CHA 1	K1964 WHI 1 K1964 CHA 1	K1961 WHI 135 1 K1961 CHA 135 1	K1964 WHI 135 1 K1964 CHA 135 1	K1957 WHI 1 K1957 CHA 1 UP K1958 WHI 1 K1958 CHA 1 DOWN		
	K1918 WHI 1 K1918 CHA 1	K1914 WHI 1 K1914 CHA 1	K1915 WHI 1 K1915 CHA 1	K1916 WHI 1 K1916 CHA 1	K1967 WHI 1 K1967 CHA 1	K1968 WHI 1 K1968 CHA 1	K1967 WHI 135 1 K1967 CHA 135 1	K1968 WHI 135 1 K1968 CHA 135 1	K1994 WHI 1 K1994 CHA 1 UP K1993 WHI 1 K1993 CHA 1 DOWN		

CABLE RETAINERS

VTS/12 CENTRE COMPARTMENT 10 VTS/11 OUTER COMPARTMENT 10

CABLE ENTRY SECTIONS  K1920 WHI 1 K1920 CHA 1 REAR CABLE ENTRY SECTION DADO TRUNKING K1929 WHI 1 K1929 CHA 1 REAR CABLE ENTRY SECTION SKIRTING AND DADO TRUNKING	CABLE ENTRY BOX  1922 CABLE ENTRY BOX FOR USE WITH K1920 AND K1929 5	MCB/RCD HOUSING  K1949 WHI 1 K1949 CHA 1	MINI TRUNKING ADAPTORS  K1927 WHI 10 K1927 CHA 10 MINI TRUNKING ADAPTOR	COVERS K1932 WHI OUTER SQUARE 2m K1932 CHA OUTER SQUARE 2m K1935 WHI OUTER CURVED 2m K1935 CHA OUTER CURVED 2m K1934 WHI CENTRAL STRAIGHT 2m K1934 CHA CENTRAL STRAIGHT 2m K1936 WHI EXTENSION 2m K1936 CHA EXTENSION 2m
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SOCKET OUTLETS 'PLUG-ON' 13A STANDARD  1956 WHI 5 1956 CHA 5 STANDARD SOCKET OUTLET	SWITCH/OUTLETS 'PLUG-ON' 13A STANDARD  1950 WHI 5 1950 CHA 5 STANDARD WITH NEON 1951 WHI 5 1951 CHA 5 STANDARD	NON-STANDARD  1953 WHI 5 1953 CHA 5 NON-STANDARD	'WIRE-IN' 13A STANDARD  1952 WHI 5 1952 CHA 5 STANDARD	NON-STANDARD  1955 WHI 5 1955 CHA 5 NON-STANDARD	CONNECTION UNITS DP SWITCHED 'PLUG-ON'  1970 WHI 5 1970 CHA 5 WITH NEON & 13A FUSE 1971 WHI 5 1971 CHA 5 FLEX OUTLET/13A FUSE	DP SWITCHES 32A 'PLUG-ON'  1943 WHI 5 1943 CHA 5 WITH NEON	TWO WAY SWITCH 20A SP  1942 WHI 5 1942 CHA 5	TELEPHONE SOCKET OUTLETS  1980 WHI MASTER 5 1980 CHA MASTER 5 1995 WHI HANDSET 5 1995 CHA HANDSET 5 1999 WHI RJ11 5 1999 CHA RJ11 5	ISOLATED CO-AXIAL SOCKET OUTLETS  1981 WHI 5 1981 CHA 5
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COMPUTER TERMINAL SOCKETS RJ45  1978 WHI 5 1978 CHA 5 KRONE RJ45 CATEGORY 5 COMPUTER/DATA SOCKET	25 PIN D  1984 WHI 5 1984 CHA 5 25 PIN 'D' TYPE	BNC  1985 WHI 5 1985 CHA 5 BNC TYPE	601W  1983 WHI 5 1983 CHA 5 601W COMPUTER/DATA SOCKET	ELV BLANK PLATES  1986 WHI 5 1986 CHA 5 ELV BOX AND COVER	COMPUTER TERMINAL SOCKETS FOR EXTENSION TRUNKING RJ45  K1941 WHI 5 K1941 CHA 5 RJ45/LQ 66 TELEPHONE/DATA SOCKET FOR EXTENSION TRUNKING	25 PIN D  K1988 WHI 5 K1988 CHA 5	BNC  K1989 WHI 5 K1989 CHA 5	DATA CONNECTOR FRONTPLATES FOR EXTENSION TRUNKING  K1990 WHI 5 K1990 CHA 5	ELV BLANK PLATES FOR EXTENSION TRUNKING  K1987 WHI 5 K1987 CHA 5
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FLUSH ACCESSORY MOUNTING FRAMES

1928	1 GANG	10
1946	2 GANG	5
1998	ELV	25

EMC SCREENING INSERTS

VTS/S	TRUNKING (LENGTH 3M)	5m
VTS/SI	INTERNAL CORNER	1
VTS/SE	EXTERNAL CORNER	1
21016 55T9	SPARE BONDING LINKS	25

GENERAL ACCESSORIES

K1925	PLUG IN BUSBAR COUPLER	10
1919	CABLE LINK ACCESSORY	25
1937	CABLE CROSSING BARRIER	25
1939	WALL STEP BARRIER	25
1923	10mm ² CABLE TERMINATION	10
1924	25mm ² CABLE TERMINATION	10

1909 WHI	CENTRAL COVER COUPLER	10
1909 CHA	CENTRAL COVER COUPLER	10
1930 WHI	ACCESSORY SPACER	10
1930 CHA	ACCESSORY SPACER	10
1931	BUSBAR COVER	3m
1933	BUSBAR SECTION	3m

KB/2	CUTTING BOX	1
111/35/21CMA	REAR CABLE ENTRY SECTION FIXING SCREWS	100
11750 PS	COVER SCREWS	100
1816 PS	ACCESSORY SCREWS	100
1817 PS	CABLE TERMINATION & BUSBAR COVER SCREWS	100
11827 PS	FIXING SCREW BUSHES	100

The Powelink Plus™ Skirting Dado Trunking System is manufactured in accordance with the requirements of BS 4678: Part 4 and the electrical accessories comply with the relevant requirements of BS 1363, BS 3676 and BS 5733.

Copies of test certificates are available upon request. The system complies with all relevant requirements of the 16th edition of the IEE Wiring Regulations (BS 7671).

Single socket outlets plugged onto a 12mm² busbar combine to provide compliance to the High integrity Earthing requirements of regulation 607-02-06/07.

CE Marking

All MK products in this brochure are CE marked, confirmation that they meet the EMC and LV directives.

Manufacture

All trunking components are manufactured from PVCu, Carries, extension carries, covers and cable dividers are extruded.

Carrier couplers, internal and external corner carriers, corner covers, stop ends and ELV boxes and plates are formed by injection moulding. Power accessories are moulded from urea formaldehyde.

Flat tees and flat angles are factory prefabricated from the standard PVCu profiles.

Screen products are manufactured from extruded aluminium.

Appearance

Powerlink Plus™ is manufactured in white and charcoal. The extruded components have a standard semi-gloss finish and the mould components have a compatible semi-gloss surface.

The trunking surface can also be painted, if required, after installation to suit a particular client's colour scheme. For further information, please consult MK's Technical Sales Services Department.

Mechanical Properties

Strength

Impact Resistance :

Good impact resistance under normal climatic conditions. The Powerlink Plus™ trunking system satisfies the requirements of BS 4678: Part 4, medium impact classification.

Typical Performanc :

Charpy notched impact strength:	25 KJ/m ²
Tensile strength:	at yield 34.62 N/mm ²
	at break 42.00N/mm ²
Density (sg)	1.35 to 1.45 sg

Fire Performance

The PVCu materials used in the manufacture of MK products are self extinguishing and non-flame propagating in accordance with BS 6099 and BS 4678: Part 4. Extrusion material has been tested by NAMAS accredited laboratory in accordance with the requirements of BS 476: Part 7 and has achieved a Class 1Y classification. Moulding material has been tested by a NAMAS accredited laboratory and confirms with IEC 695-2-1 at a severity of 750°C.

Thermal Properties

Powerlink Plus™ trunking is designed to accommodate local thermal expansion. Fitting instruction explain the procedure required to deal with differential movement at the interface with the building fabric.

Coefficient of Linear Expansion:

5.5 x 10 ⁻⁵ per °C (5mm/3000mm with a temperature rise of 25°C).	
Operating temperatures :	-5°C to 60°C
Vicat softening point :	75°C
Thermal conductivity :	0.19W/m/K
Glow Wire :	850°C

Ambient Temperature Range

	Min	Max
Handling and storage	-5°C	60°C
During installation	-5°C	60°C
Operating	-5°C	40°C
(Average not to exceed 35°C in any 24 hour period)		

Chemical Resistance

Powerlink Plus™ trunking is non-corrosive and not affected by sea water.

It has excellent resistance to mineral acids, alkalis and detergents. Good resistance to alcohols but liable to attack from solvents such as ketones, aromatics and hydrocarbons.

Electrical

Powerlink Plus™ trunking is non-conductive.

Dielectric Strength:

40 Kv/mm in DBP
17 Kv/mm in Tx Oil
Resistivity : 10¹⁴Ω cm

Busbar Rating :

63A 250V AC
Busbar voltage drop
L to N 3.47 mV/A/metre run
L to E 3.47 mV/A/metre run
N to E 3.47 mV/A/metre run
Earth Fault Loop Impedance
L to E 3.47 milliohms/metre run
Conditional short circuit rating
(Fuse links BS 88-100A & BS 1361 100A)
Prospective current 16.5 kA
Mechanical withstand 10.0 kA peak minimum
Thermal withstand 1.9 kA for 1 second

Biological

Powerlink Plus™ trunking is resistant to vermin and termites.

Workability

Powerlink Plus™ trunking is lightweight and can be readily cut and drilled with hand tools. A cutting block (List No KB/2) is available for use when cutting lengths of cover.

All covers and accessories are manufactured to fine tolerances to ensure a tight fit with ease of removal.

End cap retention to the carrier is ensured with the unique End Cap Retainer component.

Durability

Powerlink Plus™ trunking is stable and will maintain its performance characteristics in accordance with the terms and conditions described above.

Maintenance

Clip-on covers and interchangeable accessories provide continuous accessibility for reconfiguration, extensions and modifications to an installation.

Trunking can be cleaned with a damp cloth and a little household detergent. The surface can be decorated with commercial paints if required.

General Accessories

Cutting block KB/2

FAME YEAR

MK has been awarded ISO 9002 accreditation.

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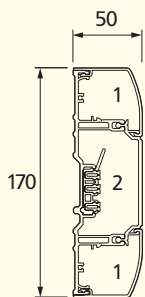
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Skirting and Dado Trunking System

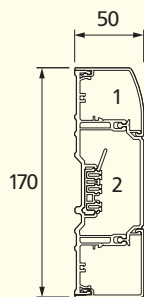
Dimensions (mm)

The dado trunking is divided into three compartments. Two identical outer compartments are mainly for ELV cables with a third central compartment containing the busbars with a cable way above. The cable carrying capacity can be increased by introducing an extension trunking below the surface track.

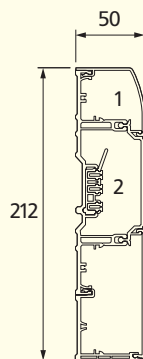
Cross section through Dado trunking



Cross section through Skirting and Dado trunking



Cross section through Skirting and Dado trunking with extension



WALL THICKNESS

Trunking base	2.4mm
Centre compartment cover	2.5mm
Curved cover	1.5mm
Extension cover	2.5mm
Extension base	3.0mm

WEIGHT

Type	Number of compartments with screen		
		1	2
Dado trunking without busbar (1903)	2.4	3.0	3.6
Dado trunking with busbar (1963)	3.0	3.6	4.2
Extension trunking (1913)	1.0	2.3	–

POWERLINK PLUS CABLE CAPACITY

Type of Conductor	Size	Cable Factor	Cmpt 1 (curved)	Cmpt 2 (without busbar)	Cmpt 2 (with busbar)	Cmpt 3 (square)	Cmpt 4 (extension)					
			Full Term CSA 100% Fill (mm²)									
			943	2968	2528	1044	2685					
			Term at 45% Fill (mm²)									
			424	1335	1137	469	1208					
Power Cables			Number of Cables at 45% Fill									
PVC Stranded	1.5mm²	8.6	49	155	132	54	140					
	2.5mm²	12.6	33	105	90	37	95					
	4mm²	16.6	25	80	68	28	72					
	6mm²	21.2	20	62	53	22	56					
Data Cables			Number of Cables at 45% Fill (a) and Full Capacity (b)									
			a	b	a	b	a	b	a	b	a	b
Cat5E UTP	5.5mm dia.	30.2	14	31	44	98	0	0	15	34	40	88
Cat5E STP	6.0mm dia.	36.0	11	26	37	82	0	0	13	29	33	74
Cat6E UTP	6.5mm dia.	42.2	10	22	31	70	0	0	11	24	28	63
Cat6E STP	7.0mm dia.	49.0	8	19	27	60	0	0	9	21	24	54

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FAME YEAR

Skirting and Dado Trunking System

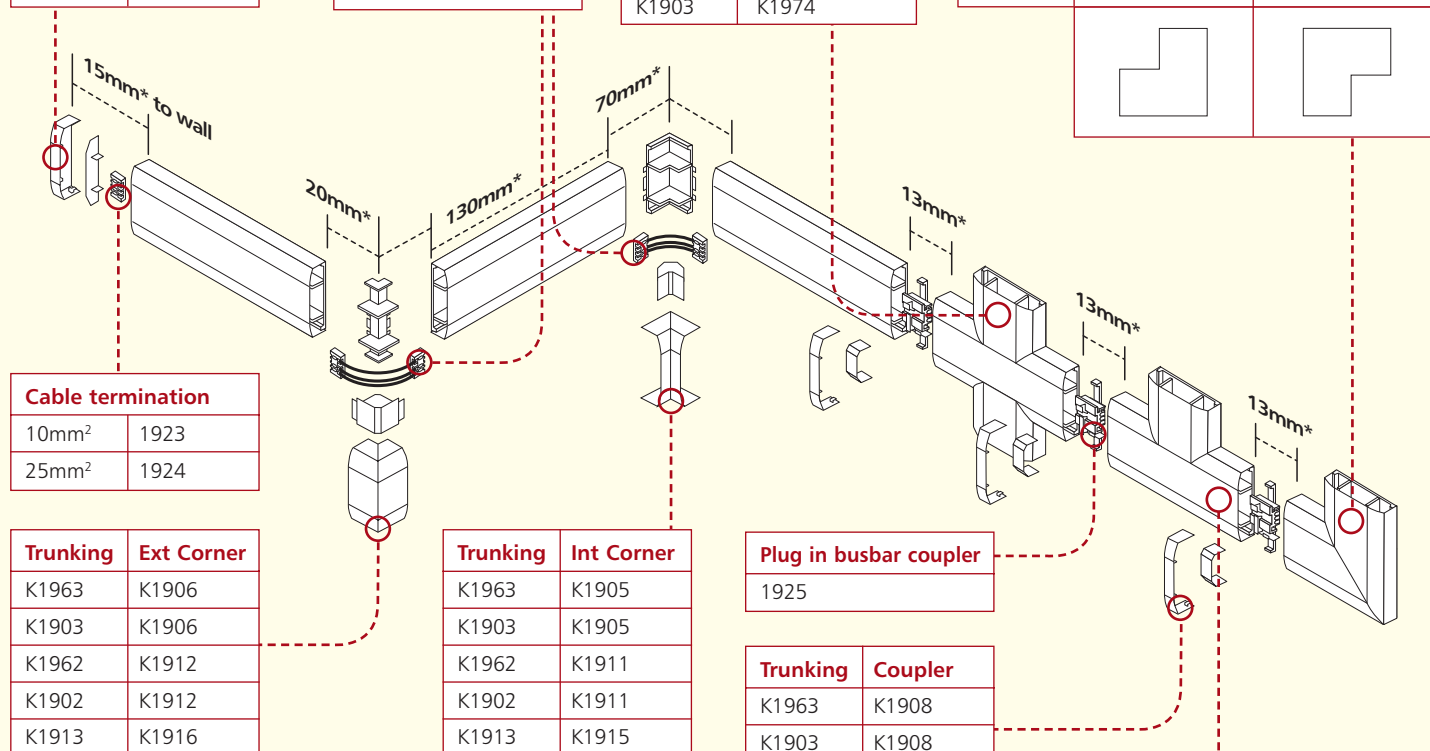
Component selection guide

Trunking	End Cap
K1963	K1904
K1903	K1904
K1962	K1944
K1902	K1944
K1913	K1914

Cable link assembly
1919

Trunking	Flat Cross
K1963	K1974
K1903	K1974

Trunking	Flat Angle Up	Flat Angle Down
K1963	K1992	K1992
K1903	K1992	K1992
K1962	K1957	K1958
K1902	K1957	K1958
K1916	K1994	K1993



Cable termination	
10mm ²	1923
25mm ²	1924

Trunking	Ext Corner
K1963	K1906
K1903	K1906
K1962	K1912
K1902	K1912
K1913	K1916

Trunking	Int Corner
K1963	K1905
K1903	K1905
K1962	K1911
K1902	K1911
K1913	K1915

Plug in busbar coupler
1925

Trunking	Coupler
K1963	K1908
K1903	K1908
K1962	K1945
K1902	K1945
K1916	K1918

Trunking	Flat Tee Up	Flat Tee Down
K1963	K1973	K1972
K1903	K1973	K1972

* Minimum distance



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譽宜科技集團整合
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