

Wire Management



wieland
...your connection to the future™

Wire Management

Electro-Duct Wiring Duct

Design features for speed, easy installation and assembly.

Mounting slots

Standard at no extra charge on all sizes of duct. Two sizes of oblong mounting holes alternating on their own 2 inch centers. All 1 and 2 inch width duct have one row of slots along its center line. The 3 and 4 inch width duct have two rows of slots.

Snap-Off Sidewall Fingers

Permits enlarging slot for lead-offs of any size wire and/or wire bundle; forms clean duct joints. Are pre-scored for smooth snap-off surfaces. **REQUIRES NO TOOLS OR ANY CUTTING.**



Type BA6

Description: Specially compounded high impact, rigid vinyl - won't peel, chip or crack; resists oils, grease, salt solutions, most mildly concentrated acids, fungus; non-flammable, warp-proof, non-brittle; high dielectric and will withstand temperatures to 150°C.

Easily cut to length - requires only a fine-tooth hand or power cutting tool for butt or mitred joints.

Packaging: Standard length (6'6") 2 meter. Sold as unit; Catalog number includes channel and cover.

Mechanical Properties

Tensile strength: 4400 lbs/sq. in.
Impact Resistance: 1.86 ft. lbs./sq. in.
Coefficient of Thermal Expansion: 2.5×10^{-5} m/m°F.

Electrical Properties

Dielectric Strength: 875 volts/mil
Surface Resistivity: 10^{11} ohm
Volume Resistivity: 10^{17} ohm cm.
Relative Dielectric Constant: 3

Thermal Properties

Flammability: Self extinguishing UL94V-0
Maintains dimensional stability under heat: $\approx 65^{\circ}\text{C}$ i.e. $\approx 150^{\circ}\text{F}$ as per DIN standard #53458.

Duct Capacity Guide

Maximum recommended number of wires used in various sizes of duct - based on 50% fill capacity and derived from the following formula:

$$\text{Number of wires} = \frac{\text{Duct } W \times H}{2 \times (\text{wire O.D.})^2}$$

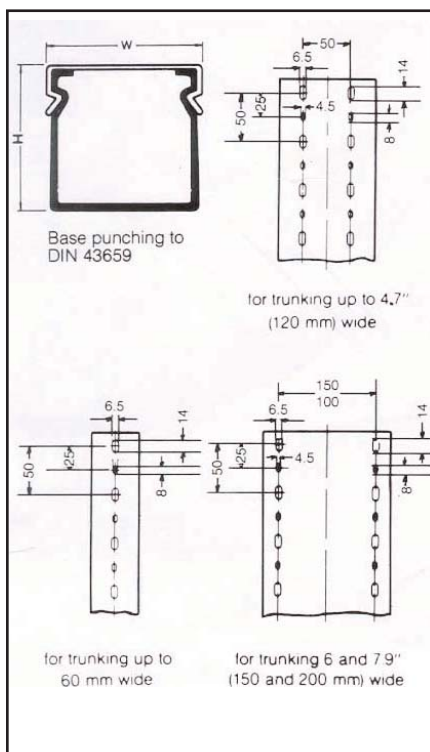
This chart is a guide in selecting proper size duct. The amount may vary according to wire installation methods.

Colors:

Available in Gray or White.

For Gray - part # ends in .0

For White - part # ends in .1



Sizes, Dimensions, Ordering Data (Catalog Number includes cover):

Catalog Number	Dimensions (W x H)		Max. No. of 18 AWG at 50% Area Fill	Capacity (mm ²)	Std. Pkg. Ft.
	mm	Nominal Inches			
34.185.1501.0 (or .1)	19 x 19	0.75 x 0.75	25	272	210
34.185.3001.0 (or .1)	18 x 32	0.75 x 1.25	42	460	262
34.185.4001.0 (or .1)	19 x 44	0.75 x 1.75	62	668	177
34.185.6001.0 (or .1)	19 x 63	0.75 x 2.50	87	958	177
34.185.2002.0 (or .1)	31 x 23	1.25 x 1.00	52	570	262
34.185.3002.0 (or .1)	30 x 33	1.25 x 1.25	72	792	164
34.185.4002.0 (or .1)	30 x 44	1.25 x 1.75	95	1056	157
34.185.6002.0 (or .1)	30 x 65	1.25 x 2.50	140	1560	197
34.185.8002.0 (or .1)	31 x 85	1.25 x 3.25	199	2108	66
34.185.4004.0 (or .1)	45 x 44	1.75 x 1.75	143	1584	164
34.185.3004.0 (or .1)	46 x 34	1.75 x 1.25	112	1250	157
34.185.6004.0 (or .1)	46 x 65	1.75 x 2.50	215	2392	131
34.185.8004.0 (or .1)	47 x 85	1.75 x 3.25	287	3196	66
34.185.4006.0 (or .1)	67 x 45	1.50 x 1.75	217	2412	131
34.185.6006.0 (or .1)	66 x 65	2.50 x 2.50	313	3432	78
34.185.8006.0 (or .1)	67 x 85	2.50 x 3.25	410	4566	66
34.185.4008.0 (or .1)	86 x 45	3.50 x 1.75	278	3096	98
34.185.6008.0 (or .1)	86 x 65	3.50 x 2.50	408	4472	65
34.185.8008.0 (or .1)	87 x 85	3.50 x 3.25	531	5916	52
34.185.6010.0 (or .1)	107 x 65	4.25 x 2.50	524	5564	52
34.185.8010.0 (or .1)	107 x 85	4.25 x 3.25	709	7900	39
34.185.4012.0 (or .1)	126 x 45	5.00 x 1.75	446	4536	65
34.185.6012.0 (or .1)	126 x 65	5.00 x 2.50	593	6552	39
34.185.8012.0 (or .1)	127 x 85	5.00 x 3.25	776	8636	52
34.185.6015.0 (or .1)	156 x 65	6.00 x 2.50	740	8112	52
34.185.6020.0 (or .1)	206 x 65	8.00 x 2.50	977	10712	39

Meets JIC Requirements. U.S. Patent No. 908.985 Approved by CSA.

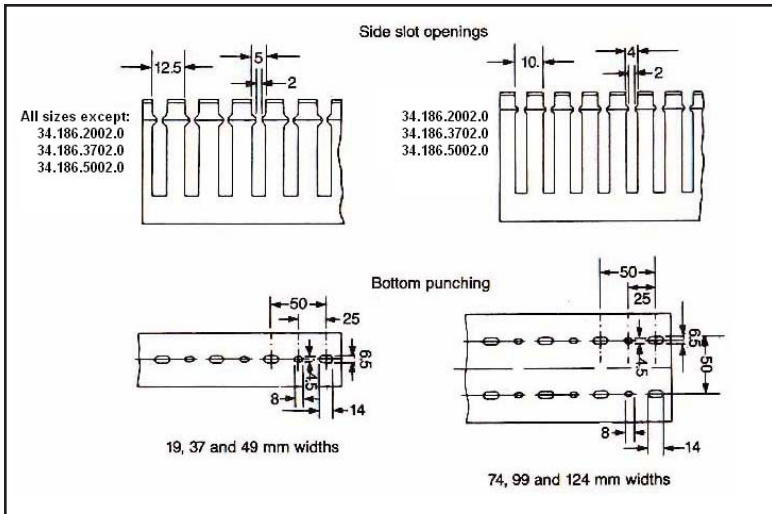
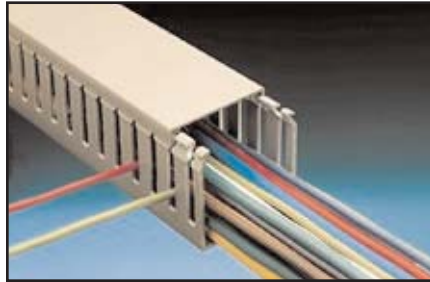
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Type DNG

Description: Similar to BA6 but fingers are formed with wire-retaining slots.

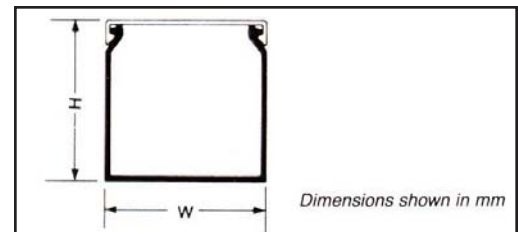
Specifications: See previous page for information.

Sidewalls are prescored to permit enlarging slot for load-offs without the need for tools or cutting.



Catalog Number	Dimensions (W x H) Nominal Inches	Max. No. of 18 AWG at 50% Area Fill	Std. Pkg. Ft.
34.186.2002.0 (or .1)	0.75 x 0.75	23	210
34.186.3702.0 (or .1)	0.75 x 1.50	43	105
34.186.5002.0 (or .1)	0.75 x 2.00	59	65
34.186.2502.0 (or .1)	1.00 x 1.00	36	157
34.186.5025.0 (or .1)	1.00 x 2.00	72	59
34.186.7502.0 (or .1)	1.00 x 2.75	110	104
34.186.2503.0 (or .1)	1.50 x 1.00	56	157
34.186.3703.0 (or .1)	1.50 x 1.50	84	131
34.186.5003.0 (or .1)	1.50 x 2.00	114	157
34.186.7503.0 (or .1)	1.50 x 2.75	170	66
34.186.5005.0 (or .1)	2.00 x 2.00	151	157
34.186.7505.0 (or .1)	2.00 x 2.75	225	79
34.186.1005.0 (or .1)	2.00 x 3.75	302	74
34.186.5007.0 (or .1)	3.00 x 2.00	228	65
34.186.7507.0 (or .1)	3.00 x 2.75	340	52
34.186.1007.0 (or .1)	3.00 x 3.75	456	52
34.186.5010.0 (or .1)	4.00 x 2.00	305	79
34.186.7510.0 (or .1)	4.00 x 2.75	454	52
34.186.1001.0 (or .1)	4.00 x 3.75	610	39
34.186.5012.0 (or .1)	4.90 x 2.00	382	52
34.186.7512.0 (or .1)	4.90 x 2.75	569	39

(Catalog Number includes cover)



Type HNG - Noryl (Chlorine Free)

Description: For high temperature applications and where a chlorine-free environment is desired. Includes prescored snap-off fingers; snap-on/off cover design; and integral slotted mounting holes. Dimensions identical to DNG duct sizes shown above.

Color: Light Gray

Packaging: Standard length (6'6") 2 meter. Sold complete with covers.

Mechanical Properties

Tensile strength: 9600 psi (675) kg/cm²

Impact resistance: 6.98 ft lbs/sq in.

(<15 cm kg/cm²)

Coefficient of thermal expansion:

59 x 10⁶ per °C.

Electrical Properties

Dielectric strength: 500 volts/mil.

Thermal Properties

Flammability: UL94 V-1

Temperature range: -40°C to 125°C

Material: Noryl (modified Polyphenyl Oxide).

Catalog Number	Dimensions (W x H) Nominal Inches
34.187.3703.0	1.50 x 1.50
34.287.5037.0	1.50 x 2.00
34.287.5050.0	2.00 x 2.00
34.187.7507.0	2.00 x 2.75
34.187.5007.0	3.00 x 2.00
34.287.7575.0	3.00 x 2.75
34.187.5010.0	4.00 x 2.00
34.187.7510.0	4.00 x 2.75
34.187.7512.0	5.00 x 2.75

(Catalog Number includes cover)



Wire Management

VK-Flex Molded Nylon Wiring Duct (Halogen Free)

Description: A flexible wiring duct that is especially suitable for switchgear, control panels, distribution equipment, cubicles and other areas where flexibility of design and installation are required.

The one-piece design with its overlapping fingers, eliminates the separate cover used with conventional duct, makes rewiring easy and lends itself to a more efficient use of space. Open slots allow for lead-offs and because the duct is molded, there are no sharp edges.

Each strip is fully interlocking for continuous end-to-end attachment. Molded with slotted mounting holes, VK-FLEX is also available with a permanent, self-adhesive backing - eliminating the need for other types of fasteners.

The open design of VK-FLEX, allowing for air circulation along with a temperature operating range of -40°C to 100°C (-40°F to 212°F), makes it especially suitable for enclosed areas where heat build-up may be a problem.

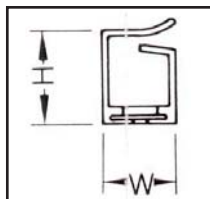


Specifications

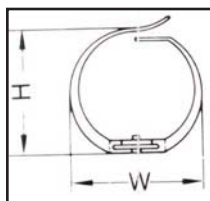
Material: Polyamide UL94V-O

Color: Standard color is Gray

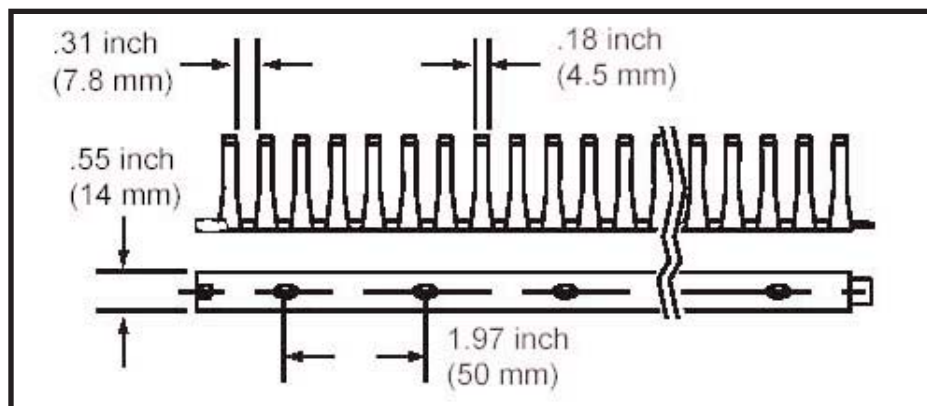
Mounting Slots Catalog Number	Permanent Self-Adhesive Strip Catalog Number	Dimensions						Wire Capacity			Std. Pkg. lengths
		(inches)			(mm)			#18	#16	#14	
34.188.0010.0	34.188.0010.1	0.43	0.59	9.84	11	15	250	10	8	5	40
34.188.0020.0	34.188.0020.1	0.90	0.83	19.68	23	21	500	20	18	13	40
34.188.0030.0	34.188.0030.1	1.30	1.22	19.68	33	31	500	57	46	30	40
34.188.0040.0	34.188.0040.1	1.69	1.77	19.68	43	45	500	101	81	53	40



34.188.0010.0 & .1
side view



All other VK-FLEX
side view

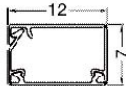
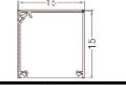


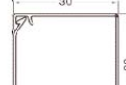


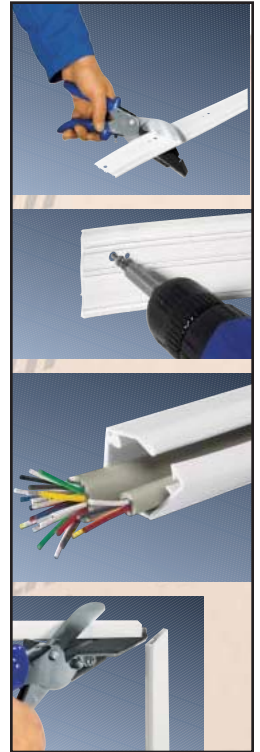
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LFR Trunking

Description: The LFR trunking is flat duct made of a strong but flexible material. The LFR trunking is delivered rolled flat in a cardboard box. When stored, the product takes up little space so it is ideal for those unplanned installations. The specifically designed cutter is available as an accessory and achieves a perfect cut every time. To guarantee a fast installation, the base of the LFR trunking is both self-adhesive and hole punched. The unique folding system allows the cables to be held in place before closing the cover.

Specifications: **Material:** Rigid PVC
Packing: Packing and contents compact 20 meter rolls, with punched base and self-adhesive tape.
(Sold in complete packages only)

Dimensions Height/Width	Designation (height/width)	Color	References	Packing
	34.284.7012.1 (7 x 12)	White	LFR7012 09010 T2 4012740837606	20 m
	34.284.1515.1 (15 x 15)	White	LFR1501509010 T2 4012740837613	20 m
	34.284.2020.1 (21 x 20)	White	LFR20020 09010 T2	20 m
	34.284.2053.1 (18 x 33)	White	LFR20035 0 9010 T2	20 m
	34.284.3030.2 (30 x 30)	White	LFR 30030 0 9010 T2	20 m



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