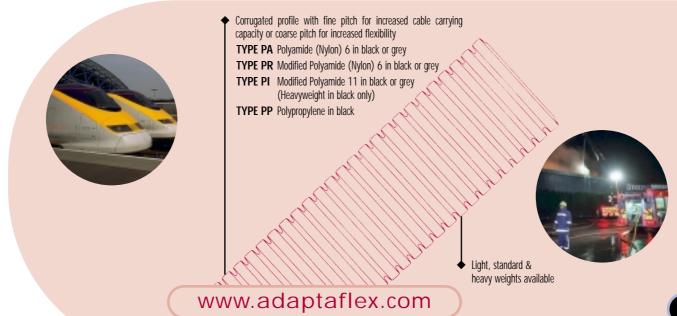


Approvals may be limited to certain products, see approvals on page 44.

			TYPE STANDARD Black (BL)	WEIGHT	(GR).		TYPE HEAVY WEI Black only.	. PI ` Ght	NEW		TYPE MEDIUM W Black only.	/EIGHT		
				W								W		
NOMINAL CONDUIT SIZE	OUTSIDE DIAMETER mm	PITCH	Part number	INSIDE DIAMETER mm	MINIMUM Bend Radius mm	REEL LENGTH m	Part number	INSIDE DIAMETER mm	MINIMUM Bend Radius mm	REEL LENGTH m	Part number	INSIDE DIAMETER mm	MINIMUM BEND RADIUS mm	REEL LENGTH m
10	10.0	FINE	PIFS10	6.2	15	50	-	_	_	-	-	_	_	-
13	13.0	FINE	PIFS13	9.9	25	50	PIFH13	9.7	30	50	PPFM13	9.8	5	50
16	15.8	FINE	PIFS16	11.7	30	50	PIFH16	11.5	35	50	PPFM16	12.1	35	50
17	17.8	COARSE	PICS17	13.5	30	50	PICH17	13.2	35	50	-	-	-	-
21	21.2	FINE	PIFS21	16.6	35	50	_	-	-	_	PPFM21	16.8	40	50
21	21.2	COARSE	-	-	-	-	PICH21	16.4	40	50	-	-	-	-
22	21.8	COARSE	PICS22	16.4	35	50	PICH22	16.3	40	50	-	-	-	-
28	28.5	FINE	-	-	-	-	-	-	-	-	PPFM28	23.1	60	50
28	28.5	COARSE	PICS28	21.7	45	50	PICH28	21.5	50	50	-	-	-	-
34	34.5	FINE	-	-	-	-	-	-	-	-	PPFM34	29.1	50	50
34	34.5	COARSE	PICS34	27.7	55	25	PICH34	27.5	60	25	_	-	-	-
42	42.5	COARSE	PICS42	35.5	60	25	PICH42	35.3	65	25	_	-	-	-
54	54.5	COARSE	PICS54	46.6	70	25	PICH54	46.4	75	25	-	-	-	-

- See pages 38 45 for Technical Details
- See pages 34 35 for Cutting Tools and Instructions
- See page 23 for Accessories
- Minimum bend radius is minimum inside bend radius in static mode



non-metallic accessories

LOCKNUTS, CONDUIT CLIPS, PLASTIC THREAD CONVERTERS, END CAPS, SEALING WASHERS, END SLEEVES





Approvals may be limited to certain products, see approvals on page 44.

Nylon Locknuts

Sealing Washers TYPE SWM



Conduit Clips TYPE AC



End Caps

TYPE EC
Provide a smooth finish to prevent any
damage to cables where the application
is not terminated with a fitting.



- W					100000000000000000000000000000000000000				
TO FIT THREAD	PA (NYLON) BLACK	PA (NYLON) GREY	TO FIT THREAL	RUBBER FACE SEALING	NOMINAL CONDUIT SIZE mm	PART NUMBER Black	PART NUMBER Grey	NOMINAL CONDUIT SIZE mm	PART NUMBER
M12	_	_	M12	_	10	ACB10	ACG10	-	-
M16	LNPB/M16	LNPG/M16	M16	SWM16	13	ACB13	ACG13	13	ECB13
M20	LNPB/M20	LNPG/M20	M20	SWM20	16	ACB16	ACG16	16	ECB16
M25	LNPB/M25	LNPG/M25	M25	SWM25	17	ACB17	ACG17	17	_
M32	LNPB/M32	LNPG/M32	M32	SWM32	21	ACB21	ACG21	21	ECB21
M40	LNPB/M40	LNPG/M40	M40	SWM40	22	ACB22	ACG22	28	ECB28
M50	LNPB/M50	LNPG/M50	M50	SWM50	28	ACB28	ACG28	34	ECB34
M63	LNPB/M63	LNPG/M63	M63	-	34	ACB34	ACG34	42	ECB42
-	-	-	M75	-	42	ACB42	ACG42	54	ECB54
PG7	LNPB/PG7	LNPG/PG7	PG7	SWPG7	54	ACB54	ACG54	-	-
PG9	LNPB/PG9	LNPG/PG9	PG9	SWPG9	-	-	-	-	-
PG11	LNPB/PG11	LNPG/PG11	PG11	SWPG11	-	-	-	-	-
PG13	LNPB/PG13	LNPG/PG13	PG13.5	SWPG13	-	_	_	-	_
PG16	LNPB/PG16	LNPG/PG16	PG16	SWPG16	-	-	-	-	_
PG21	LNPB/PG21	LNPG/PG21	PG21	SWPG21	-	-	-	-	-
PG29	LNPB/PG29	LNPG/PG29	PG29	SWPG29	-	_	_	-	_
PG36	LNPB/PG36	LNPG/PG36	PG36	SWPG36	_	_	-	-	-
PG42	LNPB/PG42	LNPG/PG42	PG42	SWPG42	-	_	-	_	-
PG48	LNPB/PG48	LNPG/PG48	PG48	SWPG48	-	-	-	-	-

Nylon Thread Convertors

End Sleeves

For sealing cables to non-metallic conduit

EXTERNAL THREAD	M16	M20	M25	SIZE mm	NUNBER NUNBER	OLD PART NUNBER (SHOWN IN PRICE LIST)	
M20	P/M20-M16/R	-	-	13	ESN12	GZ9	
M25	-	P/M25-M20/R	-	16	ESN16	GZ11	
PG9	P/PG9-M16/TC	-	-	21	ESN20	GZ13	
PG11	P/PG11-M16/TC	_	-	28	ESN28	GZ21	
PG13	P/PG13-M16/TC	_	-	34	ESN32	GZ29	
PG16	P/PG16-M16/TC	P/PG16-M20/TC	_	42	ESN40	GZ36	
PG21	-	_	P/PG21-M25/TC	_	-	-	

Conduit cutting tools KWIKCUT CUT-VICE SWINGCUT ROTOCUT

KWIKCUT



Kwikcut is the ideal cutting tool for non-metallic conduits (PA, PR, PI, PP, KFL, KFS, KFM & XF) up to 32mm.

CUTTING INSTRUCTIONS

Place the conduit between the cutting blade and lower support, squeeze the handles and rotate the conduit for a clean, easy cut. Spare blades are available.

CUT-VICE



Cut-vice offers the ability to produce a clean cut for conduit sizes 16mm to 40mm.

CUTTING INSTRUCTIONS

Place the conduit along the vice body and tighten the clamp. Holding the conduit and integral handle together, insert a hacksaw blade into the guide and cut. For braided conduit, wrap adhesive tape around the cutting point to secure braid. Remove tape after cutting.

ROTOCUT

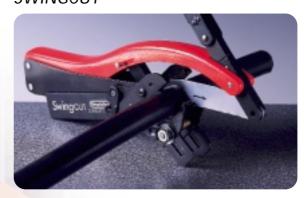


Rotocut offers a simple but effective method for cutting 20mm and 25mm S, SS, SP, LFH-SP and SN conduit types.

CUTTING INSTRUCTIONS

Adjust the clamping pin so that the conduit is just held in the recess. Squeeze the lever and body whilst rotating the cutting blade. When the blade appears on the inside of the conduit, release the pressure and remove the conduit. A simple twist will then separate the two parts. Where the conduit is covered, the covering can be cut prior to separation. Spare blades are available.

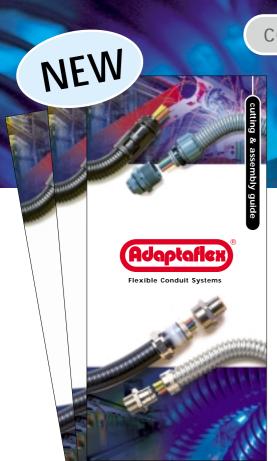
SWINGCUT



Swingcut is a versatile vice and saw combination tool which facilitates a neat, square cut for liquid tight and pliable conduits between 10mm and 32mm. Six to one leverage advantage provides a strong cutting action.

CUTTING INSTRUCTIONS

Place the conduit in the vice and secure. Move the operating handle backwards and forwards whilst applying increasing pressure to the supporting handle. Hardened captive spring loaded retaining pins make blade replacement easy. Spare blades are available.



conduit cutting and assembly guide

Optimum performance of flexible conduit systems is only achieved when correctly assembled and installed.

Assembly of all Adaptaflex's conduit and fittings is now covered in a new cutting instructions booklet, which covers the correct cutting of conduit and how to assemble and attach the fittings.

By following the easy steps you are assured of correct installation and peak operating performance.

The booklet also provides useful tips, gained from actual installation experiences, which just might save you time in the future, when next installing Adaptaflex flexible conduit systems.

Ask for your copy today.

NON-METALLIC **SYSTEMS**

ADAPTALOK

FLEXIBLE SYSTEMS
TYPE PK, PKTC, PKSS, PRTC & PRS

The various Adaptaflex conduit system types, **ADAPTASEAL** either non-metallic or TYPE PA, PR, PI & PP ADAPTARING TYPE PA, PR, PI & PP metallic, are referenced here exactly as they are in our main product catalogue LARGE DIAMETER SYSTEMS

Full technical details of each conduit system are given in the catalogue.

Contents

Each page in this guide is mbered and colour in accordance

SYSTEMS

ADAPTASTEEL STEEL FLEXIBLE SYSTEMS TYPE S & SS

METALLIC

ADAPTASTEEL COVERED STEEL FLEXIBLE SYSTEMS PE SP, SN & LFH-SP

ADAPTASTEEL LIQUID TIGHT COVERED STEEL FLEXIBLE SYSTEMS TYPE SPL, SPLHC & SPUL

FLEXIBLE SYSTEMS



















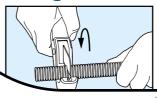




NON-METALLIC SYSTEMS Tools required

- Kwikcut cutting tool, fine-tooth hacksaw, or utility knife.
- · Adaptalok removal tool to assist fitting removal

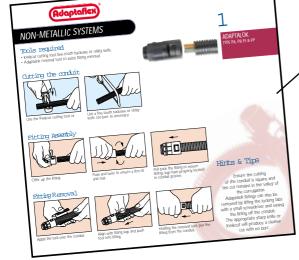
Cutting the conduit





Also available on Adaptaflex's CD rom is video footage covering usage of the cutting tools described above.

Both the new instruction booklet and CD ROM are available by calling the Adaptaflex infoline.





The following pages enable you to select Adaptaflex products which best fit the purpose intended and are designed to help meet your product liability obligations over the lifetime of the installation.

To select the most appropriate Adaptaflex system for any given application match the performance criteria required to the relevant tables on the following pages.

Performance criteria used in this table are:

Bending to EN50086

Flexible and pliable conduits can be bent by hand. Flexible systems may flex frequently throughout their life and are suitable for both static and dynamic applications.

Pliable systems are intended only for static applications.

Flexibility

Dependent on ease of bending and minimum bend radius without failure.

Fatigue Life

The recommended maximum number of flexing cycles to avoid failure, dependent on temperature, bend radius and frequency of movement.

Torsional Capability

Degree of resistance to conduit damage caused by twisting.

Minimum Dynamic Bend Radius @ Minimum Temperature

The recommended minimum inside bend radius at the minimum temperature to EN50086. Fatigue life in dynamic flexing applications is dependent upon bend radius, frequency of bending, temperature and the chemical environment.

Minimum Temperature to EN50086

The minimum operating temperature defined by the bending classification.

Minimum Static Temperature

The recommended minimum operating temperature in static mode.

Maximum Temperature to EN50086

The maximum operating temperature defined by the bending classification.

Maximum Long Term Temperature

The recommended maximum operating temperature in static mode.

Ultimate Compression Strength

Final resistance to deformation under compressive load.

Ultimate Tensile Strength

A combination of final conduit tensile and fitting pull-off resistance.

Abrasion Resistance

An indication of resistance to rubbing against other materials

UV Resistance

An indication of suitability for external application dependent on resistance to degradation caused by exposure to UV ie. sunlight.

Non-Flame Propogating to EN50086

Self-extinguishing within a given time once a fire source is removed.

Halogen Free

Giving off < 0.1% Halogen acid gas when burnt.

Fire Performance (see key on page 39)

Systems combining various levels of high flame retardancy, low smoke density and toxicity in the event of fire are classified as Low Fire Hazard (LFH), Enhanced Low Fire Hazard (ELFH), Inherent Low Fire Hazard (ILFH) or Super Low Fire Hazard (SLFH).

EMI Screen @ 1MHz

(see SCREENSYSTEMS on page 45)

SCRIEBANSTRANGE are classified as EMI Screen, Enhanced EMI Screen or High EMI Screen dependent on capability to reduce electromagnetic interference (EMI) in the frequency range 0.1MHz to 1000 MHz

System IP Rating to EN50086 (see definitions on page 43)

The resistance of an assembled system to the ingress of solids and liquids, dependent on the combination of conduit and fittings.

The point of entry into adjoining equipment may require independent sealing to maintain the system IP rating, see sealing washers on page 23.

CONDUITS			VOMINAL SIZE	RANGE mm	FINISH BELOW)
NON-METALLIC SYSTEMS	PAGE NUMBER	CONDUIT	MIN	 MAX	COLOUR/FINISH (SEE KEY BELOW)
	COMPLIIT	PA LIGHT	13	54	B/G
AD ADTALOW	CONDUIT 4-5	PA STANDARD	10	106	B/G
ADAPTALOK ADAPTASEAL	10	PA HEAVY	13	54	B/G
ADAPTARING	FITTINGS	PR	13	54	B/G
FLEXIBLE SYSTEMS	FITTINGS 6-17	PI	10	106	B/G
		PIH	13	54	В
		PP	13	34	В
		PK	13	34	В
HI-SPEC		PKTC	13	34	S
FLEXIBLE SYSTEMS	18-19	PKSS	13	34	S
		PRTC	16	54	S
		PRSS	16	54	S
		VE1	41	50	0
KORIFIT	00.01	KFL	16	50	G
PVC PLIABLE SYSTEM & XTRAFLEX	20-21	KFS	16	25	W
FLEXIBLE SYSTEM	22	KFM	12	50	В
	22	XF	12	50	В
METALLIC SYSTEMS					
ADAPTASTEEL	24-25	S	10	75	S
STEEL FLEXIBLE SYSTEMS	24-23	SS	12	32	S
		CD	10	75	D /0 /0
ADAPTASTEEL	27.27	SP	10	75	B/G/0
COVERED STEEL FLEXIBLE SYSTEMS	26-27	SN LFH-SP	12 16	32 50	B B
		rlu-sr	10	30	D
		CDI	10	(2	D /C /O
ADAPTASTEEL LIQUID TIGHT COVERED STEEL	20.20	SPL	10	63	B/G/O
FLEXIBLE SYSTEMS	28-29	SPLHC SPUL	16 16	63	B G
		SPUL	10	03	U
	30	SB	10	50	S
ADAPTASTEEL	30	STC	10	50	S
OVERBRAIDED FLEXIBLE SYSTEMS	31	SPB	10	50	S
		SPTC	10	50	S
	32	SPLHCB	16	50	S
STAYFLEX PLIABLE SYSTEM	33	LSP	16	32	В

COLOUR KEY

B = BLACK

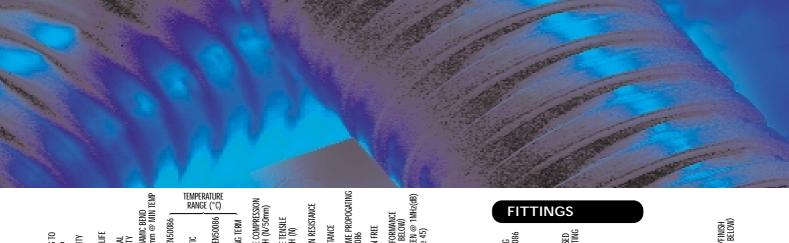
G = GREY

N = NICKEL PLATE

O = ORANGE

S = SELF

W = WHITE



				D N TEMP		TEMPEF RANG	RATURE E (°C)	_	SSION (mi		NCE		GATING		ш	Hz(dB)
BENDING TO EN50086	FLEXIBILITY	FATIGUE LIFE	TORSI ONAL CAPABILITY	MIN DYNAMIC BEND RADIUS mm @ MIN TEMP	MIN TO EN50086	MIN STATIC	MAX TO EN50086	MAX LONG TERM	ULTIMATE COMPRESSION STRENGTH (N/50mm)	ULTIMATE TENSILE Strength (n)	ABRASION RESISTANCE	UV RESISTANCE	NON-FLAME PROPOGATING TO EN50086	HALOGEN FREE	FIRE PERFORMANCE (SEE KEY BELOW)	EMI SCREEN @ 1MHz(dB) (see page 45)
F	VH	Н	†	80	-5	-40	120	120	320	150	М	VH*	1	✓		_
F	Н	Н	†	80	-5	-40	120	120	350	200	Н	VH*	1	✓	LFH	
F	М	M	†	_	-5	-40	120	120	600	350	Н	VH*	✓	✓	LFH	_
F	Н	Н	†	80	-5	-40	120	120	350	250	Н	VH*	✓	✓	ELFH	_
F	VH	VH	†	80	-45	-50	120	90	250	200	М	VH*	√	√	_	_
F	VH	VH	†	100	-45	-50	120	110	300	220	M	VH*	✓	<u>/</u>		_
F	VH	VH	†	_	-5	-20	105	90	100	100	M	M*	-	√	_	-
F	VH	Н	_	_	-45	-60	260	260	600	300	VH	VH	1	1	SLFH	_
F	VH	Н.	_	_	-45	-60	260	260	600	1200*	_	VH	<u>✓</u>	<u> </u>	SLFH	98
F	VH	Н.	_	_	-45	-60	260	260	600	1500	_	VH	<u> </u>	<u> </u>	SLFH	61
F	М	Н	_	80	-5	-40	120	120	350	1200*	_	VH	<u>√</u>	1	ELFH	98
F	М	Н	_	80	-5	-40	120	120		1500*	_	VH	/	1	ELFH	61
P	M	L	_	_	-5	-5	60	60	400	150	М	Н	1	_	_	-
Р	М	L	-	_	-5	-5	60	60	750	250	М	Н	1	-	_	-
Р	М	L		-	-5	-5	60	60	800	300	М	Н	1	_		_
P	VH	M	1	-	-5	-5	60	60	450	150	М	M	1	-	_	-
F	Н	Н	_	40	-45	-50	250	300	1500	1000	М	VH	1	1	ILFH	_
F	Н	Н	_	40	-45	-50	250		2550	1700	Н	VH	1	1	ILFH	-
F	Н	M	_	40	-5	-15	90	70*	1500	1000	М	VH	1	-	-	-
F	М	М	-	50	-25	-40	150	120	1500	1000	Н	Н	1	1	-	-
F	M	M	-	50	-5	-25	105	90	1500	1000	М	Н	✓	✓	ELFH	-
F	М	М	_	160	-5	-20	105	105*	2500	1600	М	VH	1	_	_	_
F	M	H	-	60	-45	-65	150	135*		1600	M	Н	1	/	-	_
F	М	М	-	N/C	-5	-15	105	75*	2500	1600	М	VH	1	-	_	-
F	Н	Н	_	40	-45	-50	250	300	1500	1000	Н	VH	✓	1	ILFH	74
F	- <u>''</u>	 H	_	40	-45	-50	250		1500	1000		VH	1	1	ILFH	103
F	- <u>''</u>	M	-	40	-5	-15	90	_	1500	1000	_	VH	1	_	_	74
F	Н.	M	-	40	-5	-15	90		1500	1000		VH	1	_	_	100
F	M	H	-	50	-45	-65				3500*	_	VH	1	/	-	72
					-											
Р	М	L	_	90	-5	-15	90	70	1050	150	М	Н	1	_	_	_
= FLEX = PLIA	IBLE		†WITH A	ADAPTARI			SI N	*Higher Hort-tei Max ten Possibl	: RM S 1P	*HIGH USPENDEI LOAD CAPABILITY)	*BLACK ONLY		PROP	PERTY EN INDE	V ICO

7 3 3 3 3 3				
FITT	ING	S		±Ŝ
386	5			FINIS
SYSTEM IP RATING TO EN500	N N		IYPE	OUR/
	Ä	MA WIT	·	SEE
66	=	AL	A/C90/FL90+FLC90/45/Y	B/G
66 66	=	AL AL	PPA SA/SFA/SC90/S45/SF45	B D/C.N
66	=	AL	UNEF Connectors	В В
66, 67	=	AS	A/C90/FL90/T	B/G
40	=	AR	A/C90/FL90/T	B/G
65	=	ADC	FLA/FL90/CP90	B/G
66, 68	=	AS	A/C90 with SWM	B/G
66, 67	=	PK	PK	N
00, 07	_	I IX	TK	11
66, 67	=	PB	В	N
40	=	KC	A/C90	B/G/W
65	=	KF	A/2020	W
65	=	XF	A/C90	В
		_		
40	=	S	A/B/F	N
40	=	S	С	N
54	=	SP	A/B/F	N
65	=	SP	M	N
00	_	SP	E	N
00		Ji	· ·	IV
67		SPL	A/B	N
66, 67, 68	=	SPL	M	N
00, 07, 00	=	SPL	E	N
00		JI L	Ĺ	14
40	=	SB	A/B	N
54	=	SPB	A/B	N
66, 67, 68	=	SPLB	A/B	N

PERFORMANCE LEVEL KEY

L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

FIRE PERFORMANCE CLASSIFICATION KEY

PROPERTY	LFH	ELFH	SLFH	ILFH
OXYGEN INDEX ISO4589	$31\% \ge 01 \ge 28\%$	0I ≥ 35%	0I ≥ 35%	Low Fire
BS6853 SMOKE DENSITY 3m ³	$0.02 \ge A_0 \ge 0.03$	$0.005 \ge A_0 \ge 0.02$	$A_0 \le 0.005$	Hazard
ZERO HALOGEN	✓	✓	✓	i.e.
ZERO PHOSPHORUS	✓	✓	✓	Types S, SS & SB
ZERO SULPHUR	✓	✓	✓	conduit and fittings
LONDON UNDERGROUND	CONCESSION	APPROVED	APPROVED	
TOXICITY INDEX NES713 ISSUE 3	$5.0 \ge TI \ge 6.0$	$0.5 \ge TI \ge 5.0$	TI ≤ 0.5	
NFF16-102	I3F2	12F2	12F1	



This chart is designed to assist product selection by detailing the material types of the main components which make up a particular conduit system, i.e.

detailing the material types of the main of which make up a particular conduit sy conduit, covering, overbraid, fitting body & The full names for the abbreviated material be found on the next page in the materials	/stem, i.e. thread. I types can			CONDUIT MATERIALS					FITTING MATERIALS	
NON-METALLIC SYSTEMS	PAGE NUMBEI	CONDUIT	CONDUIT	COVERING	OVERBRAID		FITTING RANGE	FITTING	ВОДУ	THREAD
ADAPTALOK	CONDUIT 4-5	PA LIGHT PA STANDARD PA HEAVY	PA6 PA6 PA6	<u>-</u> -	- - -		AL AL AL	A/C90/FL90/45/Y PPA SA/SFA/SC90/SFC90/S45/SF45	PA66 PP PA66+N+EPDM	PA66 PP NPB
ADAPTASEAL ADAPTARING FLEXIBLE SYSTEMS	FITTINGS 6-17	PR PI	PA6 PA11	-	-		AL AS	UNEF Connectors A/C90/FLC90/T	PA66+N+EPDM CR+PA66+N+EPDM	AA
		PIH PP	PA11 PP	_	-		AR ADC	A/C90/FL/FLC90/T FLA/FL90/CP90	A+PA66 PA66	PA66 PA66
		PK	PK		-	}	PK	PK	NPB	NPB
HI-SPEC FLEXIBLE SYSTEMS	18-19	PKTC PKSS PRTC PRSS	PK PK PA6 PA6	- - -	TC SS316 TC SS316		РВ	В	SC+NPB	NPB
		VEI	DVCII			۱	VC	A/C90	A . DA	DAZZ
KORIFIT PVC PLIABLE SYSTEM &	20-21	KFL KFS	PVCU PVCU				KC KF	A/2020	A+PA66 PA66	PA66 PA66
XTRAFLEX		KFM	PVCU	-	-					
FLEXIBLE SYSTEM	22	XF	PVCU+PVC	-	-	}	XF	A/C90	CR+PA66+N+EPDM	PA66
METALLIC SYSTEMS										
ADAPTASTEEL	24-25	S	S	-	-		S	A/B/F	NPB	NPB
STEEL FLEXIBLE SYSTEMS	24-20	SS	SS316	-	-		S	С	NPB	-
ADAPTASTEEL COVERED STEEL FLEXIBLE SYSTEMS	26-27	SP SN LFH-SP	\$ \$ \$	PVC TPE PO	- - -		SP SP SP	A/B/F M C/E	NPB A+NPB+N+EPDM NPB	NPB NPB/PA6
						,				
ADAPTASTEEL		SPL	S	PVCOR	-		SPL	A/B	PA6+NPB+N+EPDM	NPB/PA6
LIQUID TIGHT COVERED STEEL FLEXIBLE SYSTEMS	28-29	SPLHC	S	TPR		. }	SPL	M	A+NPB+N+EPDM	NPB/PA6
2121EINI2		SPUL	S	PVCOR	-		SPL	E	NPB	_
ADADTACTEL	30	SB STC	S S	-	S	}	SB	A/B	NPB	NPB
ADAPTASTEEL OVERBRAIDED FLEXIBLE SYSTEMS	31	SPB	S	PVC	S	. }	SPB	A/B	NPB	NPB
	32	SPTC SPLHCB	S	PVC TPR	TC SS316] }	SPLB		PA6+NPB+N+EPDM	
OTAMELEN.	JZ	JI LI IUD	J	11 11	33310	J	OI LD	n/ U	INOTINI DTINTLI DIVI	INI DI INO
STAYFLEX PLIABLE SYSTEM	33	LSP	LS*	PVC	-		LSP	A	NPB	NPB

*Includes Kraftpaper liner

To assess the chemical resistance of an assembled system:

- from the Materials Key, compare the material of the conduit & fittings selected, against the main chemical of concern in this chart.
- the least suitable material determines the overall chemical resistance of the system. Phone the Adaptaflex Infoline for other chemicals, concentrations and temperatures.

MATERIALS KEY

AA = Anodised aluminium
B = Brass
C = Copper
CR = Chloroprene rubber
LS = Leaded steel
N = Nitrile (NBR)
NPB = Nickel plated brass
PA6 = Polyamide (nylon) 6
PA12 = Polyamide (nylon) 7
PA66 = Polyamide (nylon) 6
PW = Polyamide (nylon) 7
PA66 = Polyamide (nylon) 6
PW = Polyamide (nylon) 7
PWC = Polyamide (nylon) 6
PW = Polyamide (nylon) 6
PWC = Polyamide (nylon) 7
PWC = Polyamide (nylon) 6
PWC = Polyamide (nylon) 6
PWC = PWC
PWCOR = Oll resistant PWC
PWCOR = Oll resistant PWC
PWCOR = Oll resistant PWC
PWCOR = Silicone (Q)
SS316 = Silicone (Q)
SS316 = Silicone (D)
SS316 = Silicone (D)
SS316 = Silicone (D)
SS316 = Thermoplastic elastor

SUITABILITY KEY

- S = SUITABLE
- L = LIMITED SUITABILITY
- U = UNSUITABLE
- A = CONTACT ADAPTAFLEX INFOLINE

	A	₹	В	ပ	ಕ	ш	CS	z	₹	Æ	Δ	Æ	¥	2	윤	≥	≥	≥	≥	S	$^{\circ}$	SS	ဍ	₽	₽
ASTM NO.1	S	S	S	S	S	U	S	S	S	S	S	S	S	L	S	S	U	S	S	S	S	S	S	S	S
ASTM NO.2	S	S	S	S	L	U	S	S	S	S	S	S	S	L	S	S	U	S	S	S	S	S	S	S	L
ASTM NO.3	S	S	S	S	U	U	S	L	S	S	S	S	S	L	L	S	U	S	S	S	L	S	S	S	L
ACETIC ACID (10%)	S	S	U	L	S	S	U	S	S	L	Ĺ	L	S	S	S	Ĺ	Ĺ	S	S	U	S	S	Ĺ	S	S
ACETONE	Ĺ	S	S	S	Ĺ	S	S	U	S	S	S	S	S	U	S	L	U	U	U	S	L	S	S	U	S
ALUMINIUM CHLORIDE	Ĺ	S	Ü	L	S	S	U	S	A	Ĺ	S	L	S	S	S	S	Ĺ	S	S	U	Ĺ	Ĺ	Ĺ	Ĺ	S
ANILINE	S	S	S	S	Ĺ	S	S	U	S	L	Ü	Ĺ	Ť	Ĺ	S	U	Ū	U	Ü	S	S	S	S	Ĺ	S
BENZALDEHYDE	S	S	S	S	Ū	S	S	U	S	L	Ĺ	Ĺ	S	Ū	Ĭ	L	Ū	U	Ü	S	Ĺ	S	S	Ĺ	Ĺ
BENZENE	S	S	S	S	Ü	Ü	S	Ü	S	S	S	S	S	U	Ĺ	L	U	Ü	Ü	S	Ū	S	S	Ū	Ū
CARBON TETRACHLORIDE	S	S	S	S	Ü	U	S	U	S	S	S	S	S	U	Ĺ	Ĺ	Ĺ	Ĺ	Ĺ	S	Ü	S	S	U	Ĺ
CHLORINE WATER	U	Ĺ	Ü	U	Ĺ	Ĺ	U	U	S	Ü	Ū	U	Ü	Ĺ	Ĺ	Ū	Ū	Ū	Ĺ	Ū	Ĺ	U	Ū	Ü	S
CHLOROFORM	Ĺ	S	S	S	U	U	S	U	S	U	U	L	S	U	L	Ĺ	U	U	U	S	U	S	S	Ü	Ĺ
CITRIC ACID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
COPPER SULPHATE	S	S	S	S	S	S	S	S	S	Ĺ	S	L	S	S	S	S	S	S	S	S	S	S	S	S	S
CRESOL	U	S	Ĺ	L	Ĺ	U	S	U	S	U	U	U	Ĺ	U	S	U	Ĺ	L	Ĺ	S	U	S	Ĺ	Ĺ	S
DIESEL OIL	S	S	S	S	L	U	S	S	S	S	S	S	S	Ĺ	S	S	L	S	S	S	U	S	S	S	S
DIETHYLAMINE	U	S	S	S	Ū	U	S	U	S	S	Ĺ	S	S	S	S	U	L	Ĺ	L	S	L	S	S	Ĺ	S
ETHANOL	S	S	S	S	S	S	S	S	S	S	Ĺ	S	S	L	S	Ĺ	Ū	Ū	S	S	S	S	S	Ĺ	S
ETHER	S	S	S	S	L	U	S	U	S	S	S	S	S	Ū	S	S	L	L	S	S	U	S	S	Ĺ	S
ETHYLAMINE	Ĺ	S	S	S	Ū	S	S	S	S	S	Ĺ	S	S	L	S	U	L	Ĺ	L	S	U	S	S	Ĺ	Ĺ
ETHYLENE GLYCOL	S	S	S	S	S	S	U	S	S	S	S	S	S	S	S	S	L	Ĺ	S	U	S	S	S	Ĺ	S
ETHYL ETHANOATE	S	S	S	S	U	S	S	S	S	Ĺ	S	L	S	U	S	U	Ū	Ū	U	S	L	S	S	Ū	S
FREON 32	S	S	S	S	S	S	U	S	S	S	S	S	S	U	S	L	L	L	L	U	U	S	S	U	U
HYDROCHLORIC ACID (10%)	L	L	U	U	S	S	U	S	S	U	L	U	S	U	S	L	S	S	S	U	L	U	U	S	S
HYDROCHLORIC ACID (36%)	U	L	U	U	S	L	U	S	S	U	U	U	S	U	S	U	L	S	S	U	U	U	U	U	S
HYDROGEN PEROXIDE (35%)	U	S	U	S	S	S	U	S	S	L	L	L	S	L	S	U	S	S	S	U	S	S	S	L	L
HYDROGEN PEROXIDE (87%)	U	S	U	L	U	Α	U	S	S	U	U	U	S	U	L	U	S	S	S	U	L	S	L	U	U
LACTIC ACID	U	L	L	S	S	S	U	S	S	L	S	L	S	S	S	S	L	L	L	U	L	S	S	S	L
LUBRICATING OIL	S	S	S	S	S	U	S	S	S	S	S	S	S	L	S	S	L	S	S	S	U	S	S	S	L
METHANOL	S	S	S	S	S	S	S	S	S	L	L	L	S	L	S	L	U	U	S	S	S	S	S	L	S
METHYL BROMIDE	U	S	S	S	U	U	S	S	S	U	U	U	S	U	L	U	U	U	U	S	U	S	S	U	L
MEK	S	S	S	S	U	S	S	S	S	S	S	S	S	U	S	L	U	U	U	S	U	S	S	U	S
NITRIC ACID (10%)	L	L	U	U	L	S	U	S	S	U	U	U	S	S	S	U	S	S	S	U	L	U	U	U	S
NITRIC ACID (70%)	U	L	U	U	U	U	U	S	S	U	U	U	U	U	S	U	S	S	S	U	U	U	U	U	S
OXALIC ACID	L	S	U	L	S	S	U	S	S	L	S	L	S	S	S	L	L	S	S	U	L	S	L	S	S
OZONE (GAS)	U	S	S	S	L	S	U	S	S	U	U	U	S	S	L	S	L	L	S	U	S	S	S	S	L
PARAFFIN OIL	S	S	S	S	L	U	S	S	S	S	S	S	S	L	S	S	L	S	S	S	U	S	S	S	S
PETROL	S	S	S	S	U	U	S	S	S	S	S	S	S	U	S	S	U	S	S	S	U	S	S	S	S
PHENOL	U	S	L	L	L	S	S	S	S	U	U	U	L	U	S	L	L	L	L	S	S	S	L	L	S
SEA WATER	S	S	L	S	S	S	U	S	L	S	S	S	S	S	S	S	S	S	S	U	S	S	S	S	S
SILVER NITRATE	S	S	U	S	S	S	U	S	S	S	S	S	S	S	S	S	S	S	S	U	S	S	S	S	S
SKYDROL	S	S	S	S	L	L	S	S	S	S	S	S	S	U	S	L	U	U	U	S	L	S	S	L	S
SODIUM CHLORIDE	S	S	U	S	S	S	U	S	L	S	S	S	S	S	S	S	S	S	S	U	S	S	S	S	S
SODIUM HYDROXIDE (10%)	S	U	U	S	S	S	U	S	S	S	S	S	S	S	S	S	S	S	S	U	S	S	S	S	S
SODIUM HYDROXIDE (60%)	S	U	U	S	S	S	U	S	S	S	L	S	S	S	S	L	L	S	S	U	S	L	S	L	S
SULPHUR DIOXIDE (GAS)	U	L	U	L	L	S	U	L	U	U	U	U	S	L	S	U	S	S	S	U	S	U	L	L	S
SULPHURIC ACID (10%)	U	L	U	U	S	S	U	S	U	U	L	U	S	S	S	L	S	S	S	U	L	U	U	L	S
SULPHURIC ACID (70%)	U	L	Û	U	L	S	Ū	U	Û	Û	Û	Û	Û	L	S	U	S	S	S	Û	U	Û	Û	U	S
TOLUENE	S	S	S	S	U	U	S	U	S	S	S	S	S	L	S	U	U	U	Ü	S	U	S	S	U	U
TRANSFORMER OIL	S	S	S	S	L	U	S	S	S	S	S	S	S	L	S	S	L	S	S	S	L	S	S	S	L
1,1,1-TRICHLOROETHANE	S	S	S	S	U	U	U	U	S	S	S	S	S	L	L	L	U	U	U	U	U	S	S	U	L
TRICHLOROETHYLENE	L	S	S	S	U	U	U	U	S	L	U	L	S	L	L	L	U	U	U	U	U	S	S	U	U
TURPENTINE	S	S	S	S	U	U	S	S	S	S	S	S	S	U	U	L	L	L	S	S	U	S	S	L	U
VEGETABLE OIL	S	S	S	S	S	L	S	S	S	S	S	S	S	L	S	S	L	S	S	S	L	S	S	S	S
VINYL ACETATE	L	S	S	S	S	U	U	L	S	L	S	L	S	U	S	U	U	U	U	U	U	S	S	U	S
WATER WHITE SPIRIT	S	S	S	S	S	S	U	S	S	S	S	S	S	S	S	S	S	S	S	U	S	S	S	S	S
	S	S	S	S	L	U	S	S	S	S	S	S	S	U	S	L	L	L	S	S	U	S	S	L	L
ZINC CHLORIDE	2	L	U	L	S	S	U	S	S	U	S	U	S	S	S	S	S	S	S	U	S	S	L	L	S
				L				£Ι																	



NON METALLIC SYSTEMS	WITH	1 COMPRESSIC	2 IMPACT	3 MIN. TEM	4 MAX. TEM	5 BENDING	6 ELECTRICA	7 SOLID INGRESS (IP	8 LIQUID INGRESS (IP	9 CORROSIO	10 TENSILE	11 NON-FLA PROPAGATIN	12 SUSPEND Load
PA LIGHT	AL	2	4	2	4	4	0	6	6	0	1	1	0
PA STANDARD	AL	2	4	2	4	4	0	6	6	0	1	1	0
PA HEAVY	AL	2	4	2	4	4	0	6	6	0	2	1	0
PR	AL	2	4	2	4	4	0	6	6	0	1	1	0
PI	AL	1	3	5	4	4	0	6	6	0	1	1	0
PIH	AL	2	4	5	4	4	0	6	6	0	1	1	0
PP	AL	2	3	2	3	4	2	6	6	0	1	2	0
PK	PK	2	4	5	6	4	3	6	7	0	3	1	0
PKTC	PB	2	4	5	6	4	3	6	7	0	3	1	0
PKSS	PB	2	4	5	6	4	3	6	7	0	3	1	0
PRTC	PB	2	4	2	4	4	1	6	7	0	3	1	0
PRSS	PB	2	4	2	4	4	1	6	7	0	3	1	0
KFL	KC	2	2	3	1	2	2	4	0	0	1	1	0
KFS	KC	2	3	3	1	2	2	4	0	0	2	1	0
KFM	KC	3	3	3	1	2	2	4	0	0	1	1	0
METALLIC SYST	TEMS												
S	<u>S</u>	4	4	5	6	4	0	4	0	1	4	1	5
SS	S	4	4	5	6	4	0	4	0	4	4	1	5
00	00 (11)								-				_
SP	SP(M)	4	4	2	2	4	2	6	5	0	4	1	5
SN	SP(M)	4	4	2	5	4	0	6	5 5	0	4	1	5 5
LFH-SP	SP(M)	4	4	2	3	4	U	0	5	U	4	ı	5
SPL	SPL(M)	4	4	2	3	4	2	6	7	0	4	1	5
SPLHC	SPL(M)	4	4	5	5	4	0	6	7	0	4	1	5
SB	SB	4	4	5	6	4	1	4	0	1	4	1	0
STC	SB	4	4	5	6	4	1	4	0	1	4	1	0
SPB	SPB	4	4	2	2	4	3	5	4	0	4	1	0
SPTC	SPB	4	4	2	2	4	3	5	4	0	4	1	0
SPLHCB	SPLB	4	4	5	5	4	1	6	7	0	5	1	0
LSP	LSP	3	4	2	2	2	2	6	7	0	1	1	0

Information based on nominal 20mm conduit size

PERFORMANCE CLASSIFICATION KEY

CLASSIFICATION LEVEL	COMPRESSION STRENGTH (N)	IMPACT STRENGTH (J)	MINIMUM Temperature (°C)	Maximum Temperature (°C)	BENDING	EL ECTRICAL PROPERTIES	IP RATING (SOLID INGRESS)	IP RATING (WATER INGRESS)	CORROSION RESISTANCE	TENSILE STRENGTH (N)	NON-FLAME PROPOGATING	SUSPENDED LOAD CAPACITY (N)
0	_	-	-	-	-	Not declared	-	0	N/A	Not declared	-	Not declared
1	125	0.5	5	60	Rigid	Conductor	-	1	Low	100	1	20
2	320	1	-5	90	Pliable	Insulator	-	2	Medium	250	Х	30
3	750	2	-15	105	Pli/Semi Rigid	Con/Ins	3	3	Med-Hi	500	-	150
4	1250	6	-25	120	Flexible	-	4	4	High	1000	-	450
5	4000	20	-45	150	-	-	5	5	-	2500	-	850
6	-	-	-	250	-	-	6	6	-	-	-	-
7	_	_	_	_	_	_	_	7	_	-	_	-

In 1995/96 the new European standards for flexible and pliable conduit systems (BS EN 50086-2.3 & BS EN 50086-2.2) were published by BSI.

This is the first European standard for such conduit systems and has been written to conform to the Low Voltage Directive (LVD) and the Construction Product Directive (CPD).

EN50086 is a performance standard which identifies key product characteristics (detailed below). For each of these characteristics there are recommended tests with associated performance classifications

The adjacent table and key allow you to check product suitability in line with the EN50086 performance classifications.

Compression Strength

(Performance Classification 1)

Resistance to deformation under compressive load.

Impact Resistance

(Performance Classification 2)

Resistance to brittle fracture and deformation under impact.

Minimum Temperature to EN50086

(Performance Classification 3)

The minimum operating temperature defined by the bending classification.

Maximum Temperature to EN50086

(Performance Classification 4)

The maximum operating temperature defined by the bending classification.

Bending to EN50086

(Performance Classification 5)

Flexible and pliable conduits can be bent by hand.

Flexible systems may flex frequently throughout their life and are suitable for both static and dynamic applications.

Pliable systems are intended only for static applications.

Electrical Properties (Performance Classification 6)

Conduit systems defined as electrical conductors or insulators.

System IP Rating to EN50086 (Performance Classifications 7 & 8) (see definitions on page 43)

The resistance of an assembled system to the ingress of solids and liquids, dependent on the combination of conduit and fittings.

The point of entry into adjoining equipment may require independent sealing to maintain the system IP rating, see sealing washers on page 23.

Corrosion (Performance Classification 9)

Metallic systems defined by their resistance to corrode under exposure to water vapour.

Tensile Strength (Performance Classification 10)

Resistance of a system to a short term tensile load at ambient temperature

Non-Flame Propogating to EN50086

(Performance Classification 11)

Self-extinguishing within a given time once a fire source is removed.

Suspended Load Capability

(Performance Classification 12)

Resistance of a fitting to a high continuous tensile load at maximum temperature.

Thread Data

Standa	TRIC rd thread co 23 & BS364	onforming i	to	PG German to DIN40		hread confo	orming	PF Japane to JIS I		thread cont	forming	conform	r seal pipe th ing to ANSI/ – 1983		UN America to BS15	n Unified T	hread confo	orming
THREAD SIZE mm	EXT THREAD Outside diameter	INT THREAD INSIDE DIAMETER	РІТСН	THREAD SIZE mm	EXT THREAD OUTSIDE DIAMETER	INT THREAD INSIDE DIAMETER	РІТСН	THREAD SIZE (inches)	EXT THREAD OUTSIDE DIAMETER	INT THREAD INSIDE DIAMETER	РІТСН	THREAD SIZE (inches)	EXT THREAD OUTSIDE DIAMETER	PITCH	THREAD SIZE (inches)	EXT THREAD Outside diameter	INT THREAD INSIDE DIAMETER	PITCH
M8	8.0	6.9	1.0	PG7	12.5	11.3	1.27	1/4	13.0	-	1.34	-	-	-	5/8	15.9	14.7	1.06
M10	10.0	8.9	1.0	PG9	15.2	13.9	1.41	3/8	16.7	15.0	1.34	3/8	16.7	1.14	3/4	19.1	17.7	1.27
M12	12.0	10.9	1.0	PG11	18.6	17.3	1.41	1/2	21.0	18.6	1.81	1/2	21.0	1.81	13/16	20.6	19.3	1.27
M12	12.0	10.4	1.5	PG13.5	20.4	19.1	1.41	3/4	26.4	24.1	1.81	3/4	26.4	1.81	7/8	22.2	20.9	1.27
M16	16.0	14.4	1.5	PG16	22.5	21.2	1.41	1	33.3	30.3	2.31	1	33.3	2.21	15/16	23.8	22.4	1.27
M18	18.0	16.9	1.0	PG21	28.3	26.8	1.59	11/4	41.9	39.0	2.31	11/4	41.9	2.21	1	25.4	24.0	1.27
M20	20.0	18.4	1.5	PG29	37.0	35.5	1.59	11/2	47.8	44.8	2.31	11/2	47.8	2.21	11/8	28.6	27.0	1.41
M25	25.0	23.4	1.5	PG36	47.0	45.5	1.59	2	59.6	56.7	2.31	2	59.6	2.21	13/16	30.2	28.6	1.41
M30	30.0	28.4	1.5	PG42	54.0	52.5	1.59	-	-	-	-	-	-	-	11/4	31.8	30.2	1.41
M32	32.0	30.4	1.5	PG48	59.3	57.8	1.59	-	-	_	-	-	-	-	15/16	33.3	31.8	1.41
M40	40.0	38.4	1.5	-	-	-	-	-	-	-	-	-	-	-	13/8	34.9	33.4	1.41
M50	50.0	48.4	1.5	-	-	-	-	-	-	-	-	_	_	_	17/16	36.5	35.0	1.41
M63	63.0	61.4	1.5	-	-	-	-	-	-	-	-	-	-	-	13/4	44.5	42.9	1.41
M75	75.0	73.4	1.5	-	-	-	-	-	-	-	-	-	-	-	2	50.8	49.3	1.41
-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	21/4	57.2	55.4	1.41

NOTE: Dimensions are nominal & in mm unless otherwise stated.

IP Ratings

The degree of ingress protection is indicated by two digits following the letters IP. The first refers to protection against the ingress of solid objects, the second refers to protection against the ingress of water.

Protection against solids 1st Digit

Protection against solid bodies larger than 1mm

Protection against dust (no harmful deposits)

6 Complete protection against dust

Example

Adaptalok system is IP66 which provides complete protection against dust and protection against jets of water of similar force to heavy seas.

Protection against water 2nd Digit

No protection

Protection against projections of water from all directions

Protection against jets of water from all directions

Protection against jets of water of similar force to heavy seas

Projection against ingress of water to a depth of 1 metre

8 Continuous submersion at a quoted pressure and time e.g. 2 bar at 24 hours

Cable Carrying Capacity

UK wiring regulations, BS7671 recommend that the total cross sectional area of the sum of the individual cables should not exceed 40% of the cross sectional area of the conduit. The nominal cross sectional area of single-core, stranded, PVC insulated cables is provided as a guide only. Other cables may have different dimensions.

NOMINAL CONDUCTOR SIZE (mm²)	NOMINAL OVERALL CROSS SECTIONAL AREA (mm²)
1.0	6.6
1.5	7.6
2.5	9.6
4.0	14.5
6.0	18.8
10.0	29.3
16.0	40.2
25.0	63.8
35.0	83.5
50.0	113.0
70.0	149.0
95.0	204.0

Example: Is SP20 suitable for five 4.0mm² & two 1.5mm² cables?

- The total cross sectional area of the conductors is 5 x 14.5mm² (for 4.0mm² conductors) + 2 x 7.6mm² (for 1.5mm² conductors) = 87.7mm²
- The cross sectional area of SP20 is 3.142 x [$\frac{\text{Inside Diameter}}{2}$]² = 224mm²
- % of conduit cross sectional area $\left[\frac{a}{b^2}\right]$ x 100 = 39.1%

This is less than 40% therefore this conduit is suitable for this combination of cables.

The easiest way of installing cables into flexible & pliable conduit is to simultaneously draw in the cables with the conduit in straight condition before installation. UK wiring regulations prohibit the use of flexible or pliable conduit as an earthing conductor. Please phone the <code>Adaptaflex Infoline</code> for further guidance.



As a worldwide supplier of conduit systems, Adaptaflex has an expanding portfolio of international approvals obtained from the various organisations indicated below.

The table shows the relevant approvals obtained for each conduit system.

Since approvals are constantly being added, audited & updated, please phone the Adaptaflex Infoline for the latest details.

등 등분 METALLIC SY	STEMS	KITE MARK BSEN50086	CE IND	TLOYDS	(U) (SP) (SP)	IUL COMPLIANCE	AUS EX930
S	S	✓	✓	-	-	-	_
SS	S	✓	✓	-	-	-	-
SP	SP(M)	✓	✓	-	_	-	_
SN	SP(M)	✓	✓	-	_	-	_
LFH-SP	SP(M)	1	✓	1	-	FULL	-
SPL	SPL(M)	✓	✓	✓	UR	-	1
SPLHC	SPL(M)	✓	1	-	_	-	_
SPUL		-	✓	-	UL+CSA	-	_
SB	SB	✓	1	-	_	-	_
STC	SB	1	1	-	_	-	_
SPB	SPB	1	1	-	_	-	_
SPTC	SPB	✓	1	-	_	-	_
SPLHCB	SPLB	✓	✓	-	-	-	-
LSP	LSP	1	1	_	_	-	-

_ EX930	CONDUIT	WITH	KITE MARK BSEN50086 OR IMO	CE LVD	SOLUTION STATES	(l) (R)	تا CSA 227.3 M-91 (عادة)	NF R13-903	LUL COMPLIANCE	DIN5510	NFF16-102
S	NON-METALLI	C SYSTEM	2 🛕	CE		(12)	CUL	NF	LUL	DB	NF
	PA LIGHT	AL	✓	✓	-	UR	-	-	CONCESSION	✓	-
	PA STANDARD	AL	✓	✓	✓	UR	-	✓	CONCESSION	✓	14F3
	PA HEAVY	AL	✓	✓	✓	UR	✓*	✓	CONCESSION	✓	14F3
	PR	AL	✓	✓	✓	UR	-	-	APPROVED	✓	12F2
	PI	AL	✓	✓	-	UR	-	-	CONCESSION	✓	14F3
	PIH	AL	_	✓	_	UR	✓*	_	CONCESSION	✓	14F3
	PP	AL	_	✓	-	-	-	-	_	-	-
	PK	PK	1	✓	_	_	-	-	FULL	_	I2F1
	PKTC	PB	-	✓	_	_	-	_	FULL	_	I2F1
	PKSS	PB	_	✓	_	_	-	-	FULL	_	I2F1
	PRTC	PB	_	✓	-	-	-	-	APPROVED	-	I2F2
	PRSS	PB	-	✓	-	-	-	-	APPROVED	-	12F2
	KFL	KC	16 - 25	✓	_	_	-	_	-	-	_
	KFS	KC	16 - 25	✓	_	_	-	_	-	_	_
	KFM	KC	16 - 25	✓	_	-	-	-	-	-	_
	XF	XF	✓	✓	-	-	-	-	-	-	-

*17, 22, 28, 34, 42mm only.

Glossary

Fire Performance

Adaptaflex has introduced a set of symbols to help the user specify conduit systems for installations where fire performance is of particular concern.

Each symbol encompasses a range of properties relevant to the high specification materials used in the construction of the conduit.

They are in an ascending scale of performance from Low Fire Hazard (LFH) featuring zero halogen through to Super Low Fire Hazard (SLFH) featuring zero nitrogen. In addition, Inherent Low Fire Hazard systems (ILFH) are classified as being all metal systems.

For more detailed information on fire performance classifications, see the key on page 39.



LOW FIRE HAZARD



ENHANCED LOW FIRE HAZARD



SUPER LOW FIRE HAZARD

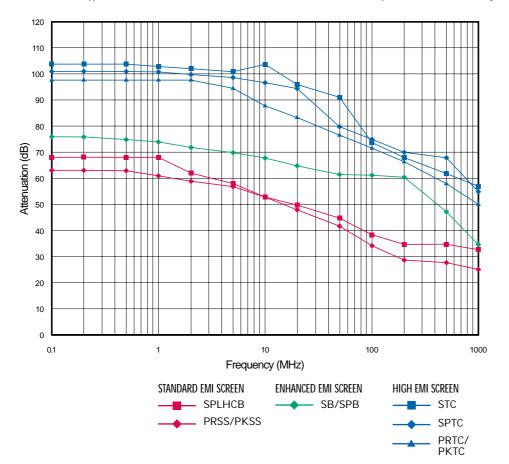


INHERENT LOW FIRE HAZARD The European Directive on Electromagnetic Compatibility (EMC) 89/336/EEC requires any electrical equipment/installation to be constructed so that if neither produces Electromagnetic Interference (EMI), sufficient to interfere with radio and telecommunications equipment, nor is itself affected by EMI.

All conduit systems are considered electrically passive since they do not produce or are affected by EMI. However, Adaptaflex has introduced a new range of "Screen Systems" which offer a cost-effective alternative to individually screened cables within applications where cross talk has no adverse effect.

Additionally the user gains the mechanical advantages of a conduit system and a simplified means of modification; e.g. addition, substitution or replacement of cables in an existing cable run.

The graph below shows the results of different types of 20/21mm diameter screened conduit, with its appropriate fittings, tested by ERA Technology, to IEC96/2:93 (Radio frequency cables Part 1). Tests measured attenuation in decibels (dB) over the frequency range covered by the EMC Directive, 0.1 to 1000MHz. The test data allows comparison with other screened conduit systems, and cables tested to IEC 96-1.



ADAPTAFLEX TRADE MARKS

Adaptaflex, Adaptaflex Screen Systems, Adaptaflex Hi-Spec Systems, Adaptalok, Adaptaring, Adaptaseal, Adaptasteel, Korifit, Stayflex & Xtraflex.

ADAPTAFLEX PATENTS

Adaptalok fittings; type KF Korifit fittings; type B Adaptasteel fittings; type AWB anti-vibration washer; pending on type ACB/ACG conduit clips.

ERRORS. OMISSIONS & AMENDMENTS EXCEPTED

Information given in this document was correct to the best of our knowledge at the original publication date and is for quidance only.

Adaptaflex is not liable for claims arising from product

Our policy is one of continuous development and specifications may change at any time.

EMI Screen Systems

For applications where electromagnetic interference is of particular concern we have classified suitable conduit systems by means of symbols. These are related in an ascending scale of performance from Standard EMI Screen (products featuring a stainless steel overbraid) through to High EMI Screen (products featuring a tinned copper overbraid).

For more detailed information see above.



STANDARD EMI SCREEN



ENHANCED EMI SCREEN



HIGH EMI SCREEN

Fitting Characteristics



FITTING OR THREAD SWIVELS INDEPENDENTLY OF CONDUIT DURING INSTALLATION BUT IS NOT SUITABLE AS A ROTATING JOINT IN CONSTANTLY MOVING APPLICATIONS



FITTING ROTATES
INDEPENDENTLY OF THE
CONDUIT TO ACT AS A
ROTATING JOINT WITHIN
CONSTANTLY MOVING
APPLICATIONS