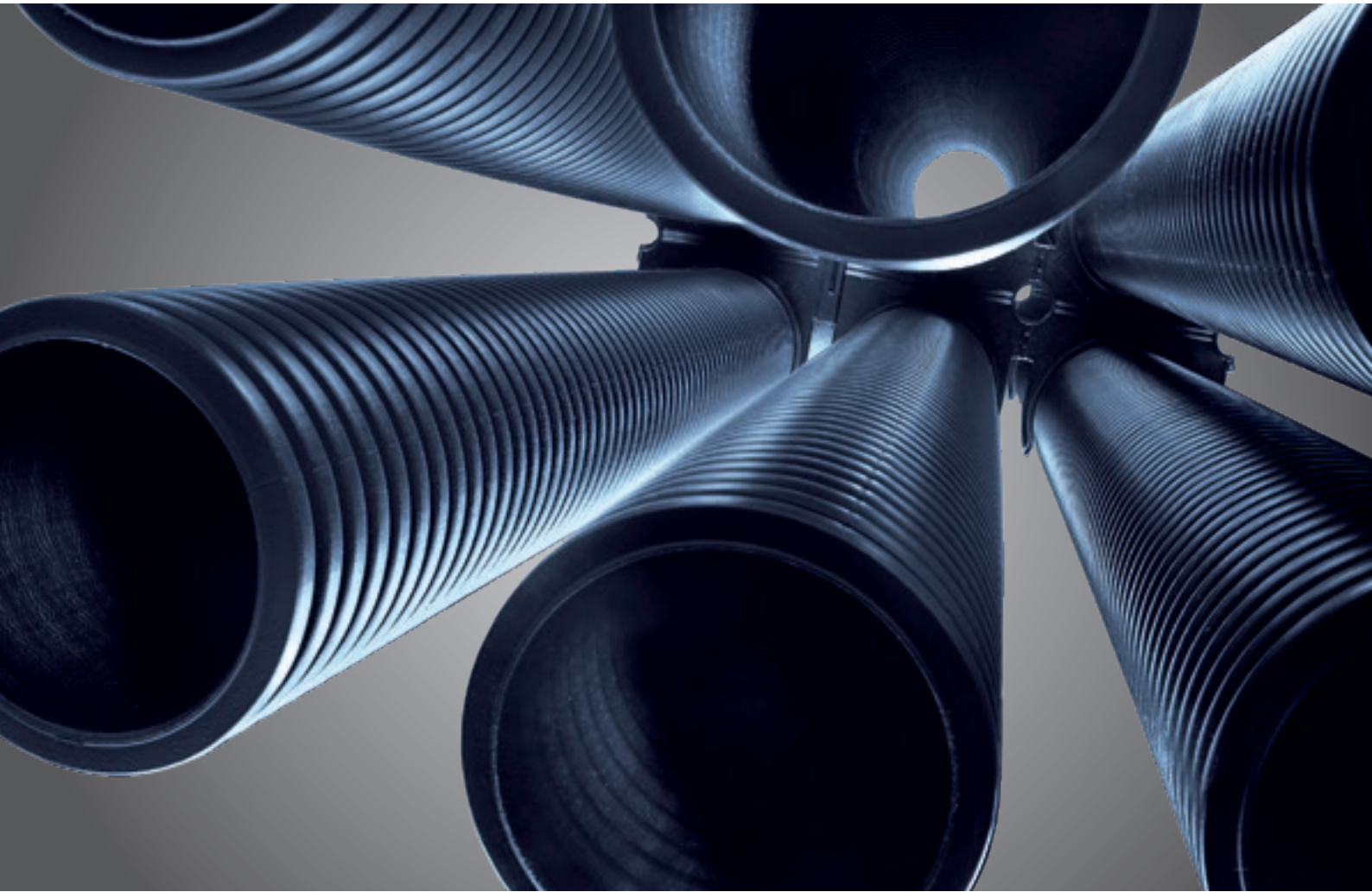


Product brochure

Kabuflex®



Cable protection for underground cables
keeps our engineered world running



Kabuflex® S, Kabuflex® R and Kabuflex® R-UV

Kabuflex® S

Kabuflex S – the straight length cable conduit (corrugated outside, smooth inside) provides both high static stability and malleability.

The relatively low weight allows easy transport and renders unnecessary any special installation tools.

Kabuflex S complies with DIN EN 61386-24.

- Flexible thanks to corrugations
- Lightweight, pressure and impact-resistant thanks to structured-wall design and high-quality PE material (can also be installed in sub-zero temperatures)
- Compressive strength class 450 (standard type) according to DIN EN 61386-24
- Couplings – sandtight and watertight when an additional profile sealing ring is used
- Smooth inner surface for easy insertion of wires and cables
- Cable conduits can be easily cut to length on-site by using a fine-toothed saw or other suitable tools



CE

Kabuflex® R

Kabuflex R – the flexible cable conduit in coils (corrugated outside, smooth inside) is the perfect addition to the range of cable protection products.

The coil design and its flexibility allow for installation over long distances without the need for couplings and bends, and serve to branch off main lines to buildings or signal systems.

This allows easy retrofit of high-voltage, telecommunication and TV cables in secluded buildings.

Kabuflex R also complies with DIN EN 61386-24.

- Structured-wall design provides both good stability and enormous flexibility
- Compressive strength class 450 (standard type) according to DIN EN 61386-24
- Easy on-site transportation and handling thanks to 50 m and 25 m coils
- Ideal conduit cross-section in the bend area
- Requires no couplings and bends and allows for quick installation
- Pre-installed pulling string facilitates inserting the cable wire

Kabuflex® R-UV

Kabuflex R-UV – the UV-resistant design for aboveground applications. UV-resistant for up to 10 years thanks to UV stabilisers. Technical data correspond to Kabuflex R.



UV-resistant for 10 years CE

Structured-wall PE conduits

Spacers allow installing several **Kabuflex S** cable conduits in bundles next to and on top of each other.

Use spacers to create the space required to place the backfill.

Kabuflex R and Kabuflex R-UV have been designed such that they also allow narrow installation radii; however, cable insertion and cable properties must be observed.

Their flexibility allows going around obstacles. Kabuflex R and Kabuflex R-UV are an economic solution thanks to their quick and efficient installation.



Kabuflex S – spacers indicating the direction make installations fast and safe



Kabuflex R and Kabuflex R-UV – provide advantages in inaccessible terrain and on uneven ground

Specification according to DIN EN 61386-24

Kabuflex S, Kabuflex R and Kabuflex R-UV comply with the requirements of compressive strength class 450 (standard type)

Kabuflex cable conduits are manufactured according to DIN EN 61386-24 and continuously monitored to ensure constant quality. Kabuflex is produced applying structured-wall pipe extrusion technology pursuant to DIN 16961. Observe relevant standards, guidelines and regulations for the installation of Kabuflex.

These include DIN EN 1610, DWA-A 139, ZTV A-StB 97 and excerpts from the installation manual A 535 published by the KRV (*Kunststoffrohrverband e.V.*). The latest version of the Kabuflex installation manual also applies.



NB

Kabuflex made of PE is resistant to acids and bases according to DIN 8075, supplementary sheet 1.

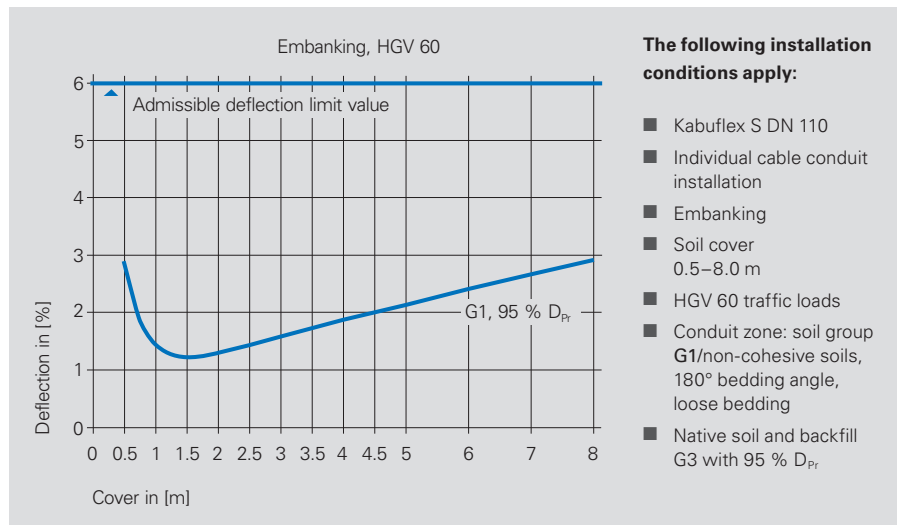
Kabuflex® – the proven cable protection system

High static load capacity

The diagram to the right shows the deflection of Kabuflex S DN 110 (individual cable conduit installation) with an increasing cover and takes into consideration the installation conditions next to the chart. For this purpose, a professional installation according to relevant provisions is assumed.

NB

The pipe stress analysis procedure acc. to ATV-DVWK-A 127 generally applies to individual cable conduits only! For cable conduit bundles, observe the information in our installation manual and A 535 by the KRV!



Kabuflex® sandtight (SD) – IP 54

Marking according to EN 60529

Reference number: 5 = protected from limited dust ingress
4 = protected from water spray from any direction

The SD coupling ensures absolutely reliable connections of Kabuflex.

It is used wherever it is sufficient to protect against soil particle ingress.

It is sandtight and can be installed quickly and easily.



SD = sandtight

Kabuflex® watertight (WD) – IP 68

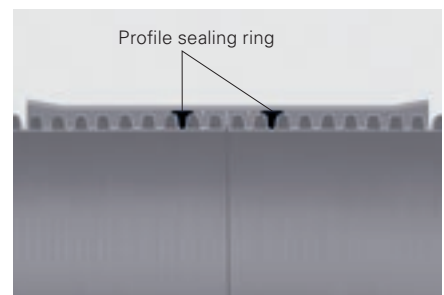
Marking according to EN 60529

Reference number: 6 = protected from total dust ingress
8 = protected from long-term immersion up to a specified pressure

Certified leak tightness of 0.5 bar for Kabuflex with sealing ring following inspection specifications according to DIN EN 1610 for underground installations.

The coupling in connection with the profile sealing ring ensures watertight connections (WD).

Mount the profile sealing ring onto the second corrugation! The profile sealing ring is used when the conduit system must be sealed against water pressure (0.5 bar) according to DIN EN 1610. The lubricant required for installation is available in tubes or buckets.



WD = watertight

NB

Seek project-specific advice from FRÄNKISCHE regarding the installation conditions for special applications or constructive engineering.

Product range overview

Kabuflex® S



NB

Standard colour black; other colours available on request.

Product	Technical specifications					Cat. no.
	Nominal diameter	D _o [mm] ¹⁾	D _i [mm] ¹⁾	L [m]	R _{min} [m] ²⁾	
Kabuflex S	DN 75	76	62	6.0	2.0	5610075
	DN 110	111	93	6.0	2.8	56100110
	DN 120	118	99	6.0	3.0	56100120
	DN 125	126	107	6.0	3.2	56100125
	DN 145	146	125	6.0	3.6	56100145
	DN 160	161	138	6.0	4.0	56100160
	DN 175	174	148	6.0	4.5	56100175

¹⁾ Production-related dimensional tolerances

²⁾ Minimum bend radius

Supplied with coupling

Kabuflex® R



NB

Standard colour black; other colours available on request.

Product	Technical specifications					Cat. no.
	Nominal diameter	D _o [mm] ¹⁾	D _i [mm] ¹⁾	L [m]	R _{min} [m] ²⁾	
Kabuflex R	DN 40	40	32	50	0.35	56210040
	DN 50	50	40	50	0.35	56210050
	DN 63	64	52	50	0.35	56210063
	DN 75	76	62	50	0.35	56210075
	DN 90	91	75	50	0.35	56210090
	DN 110	111	93	50	0.50	56210110
	DN 120	118	99	25	0.50	56200120
	DN 125	126	107	25	0.70	56200125
	DN 160	161	138	25	0.75	56200160
	DN 200	201	172	25	0.80	56200200

¹⁾ Production-related dimensional tolerances

²⁾ Minimum bend radius

Kabuflex® R-UV

UV-resistant for 10 years



NB

Standard colour black

Product	Technical specifications					Cat. no.
	Nominal diameter	D _o [mm] ¹⁾	D _i [mm] ¹⁾	L [m]	R _{min} [m] ²⁾	
Kabuflex R-UV	DN 110	111	93	50	0.50	56209111

¹⁾ Production-related dimensional tolerances

²⁾ Minimum bend radius

A broad range of accessories ...



Product	Technical specifications	Cat. no.
SD coupling	DN 40	56610040
	DN 50	56610050
	DN 63	56610063
	DN 75	56610075
	DN 90	56610090
	DN 110	56610110
	DN 120	56610120
	DN 125	56610125
	DN 145	56610145
	DN 160	56610160
DN 175	56610175	
SD coupling	DN 200	56611200
WD coupling	DN 200	56611201



Product	Technical specifications				Cat. no.
	Nominal diameter	Degrees	R [m]	L [m]	
SD bend ¹⁾ for small bend radii under tight installation conditions for Kabuflex S straight length conduits	DN 75	45°	0.75	0.9	56621075
		90°	0.75	1.5	56620075
	DN 110	45°	0.9	1.0	56621110
		90°	0.9	1.8	56620110
	DN 120	45°	0.9	1.1	56621120
		90°	0.9	1.9	56620120
	DN 125	45°	1.0	1.1	56621125
		90°	1.0	1.9	56620125
	DN 145	45°	1.1	1.2	56621145
		90°	1.1	2.2	56620145
	DN 160	45°	1.1	1.2	56621160
		90°	1.1	2.2	56620160
	DN 175	45°	1.1	1.2	56621175
		90°	1.1	2.2	56620175

¹⁾incl. coupling



Product	Technical specifications	Cat. no.
Profile sealing ring ¹⁾	DN 40	56619040
	DN 50	56619050
	DN 63	56619063
	DN 75	56619075
	DN 90	56619090
	DN 110	56619110
	DN 120	56619120
	DN 125	56619125
	DN 145	56619145
	DN 160	56619160
	DN 175	56619175
	DN 200 ²⁾	56619200
	SD end plug to permanently or temporarily seal unused cable conduits at the construction site (sandtight)	DN 40
DN 50		56680050
DN 63		56680063
DN 75		56680075
DN 90		56680090
DN 110		56680110
DN 120		56680120
DN 125		56680125
DN 145		56680145
DN 160		56680160
DN 175	56680175	



1) Use lubricant for watertight coupling joints

2) in combination with WD coupling DN 200

... completes the Kabuflex® system



Product	Technical specifications	Cat. no.
SD end cap	DN 200	56680200
WD end plug ¹⁾ to permanently or temporarily seal unused cable conduits at the construction site (watertight)	DN 110	56681110
	DN 120	56681120
	DN 125	56681125
	DN 160	56681160
	DN 175	56681175
Kabuflex adapter	DN 110/KG 100, spigot (push-fit KG coupling)	56663110
	DN 160/KG 150, spigot (push-fit KG coupling)	56663160
Kabu-Seal pressure sealing ring ²⁾ for building lead-through	DN 63	56688063
	DN 75	56688075
	DN 110	56688110
	DN 160	56688160
Wall collar set for completely tight wall lead-throughs	DN 40	56689040
	DN 50	56689050
	DN 63	56689063
	DN 75	56689075
	DN 90	56689090
	DN 110	56689110
	DN 120	56689120
	DN 125	56689125
	DN 160	56689160
DN 175	56689175	

¹⁾ incl. sealing ring; additional nominal diameters available on request

²⁾ Each set includes an installation manual.



Product	Technical specifications				Cat. no.	
	Nominal diameter	2 folds	4 folds	6 folds		8 folds
Spacer for exact spacing during the installation of Kabuflex conduit systems	DN 75	91...	92...	93...	94...	566...075
	DN 90	91...	92...	93...	94...	566...090
	DN 110	91...	92...	93...	94...	566...110
	DN 120	91...	92...	93...	94...	566...120
	DN 125	91...	92...	93...	94...	566...125
	DN 160	91...	92...	93...	94...	566...160
	DN 200	91...	92...	93...	94...	566...200

Additional accessories available on request!

NB

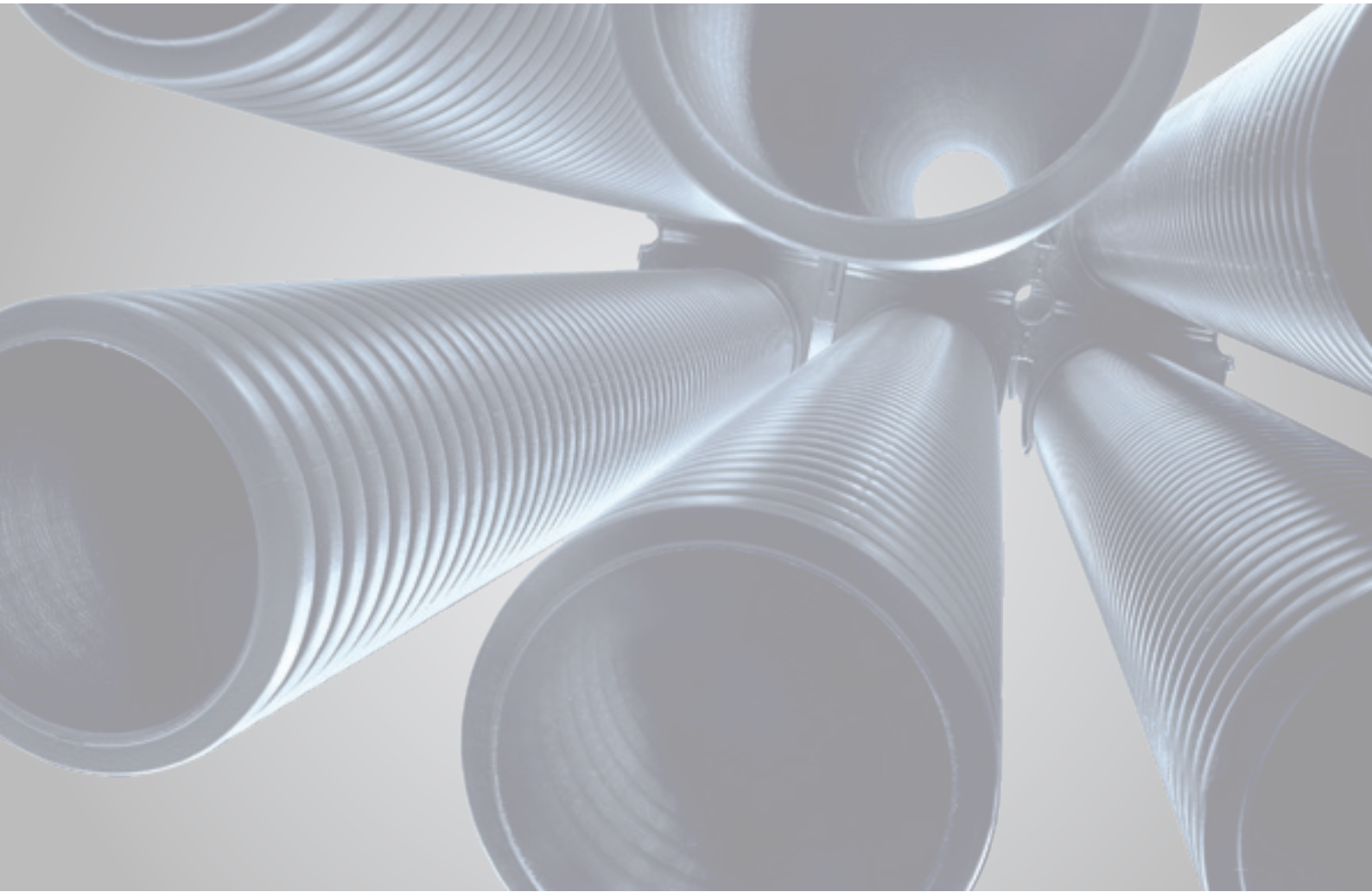
Refer to the relevant standards DIN EN 1610 and DWA-A 139 and the current version of our detailed installation manual for details regarding installation.

 www.fraenkische.com

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Information about or assessments of the use and installation of our products and systems is exclusively provided on the basis of the information submitted. We do not assume any liability for damage caused by incomplete information. If the actual situation deviates from the planned situation or if a new situation occurs or if different or new installation techniques are applied, these must be agreed upon with FRÄNKISCHE, since these situations or techniques may lead to different conclusions. Notwithstanding the above, the customer is solely responsible for verifying the suitability of our products and systems for the intended purpose. In addition, we do not assume any liability or responsibility for system characteristics and system functionalities when third-party products or accessories are used in combination with FRÄNKISCHE systems. We only assume liability if original FRÄNKISCHE products are used. For use in other countries than Germany, country-specific standards and regulations must also be observed.

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FRÄNKISCHE

FRÄNKISCHE Rohrwerke Gebr. Kirchner GmbH & Co. KG | Hellinger Str. 1 | 97486 Königsberg/Germany
Phone +49 9525 88- 2200 | Fax +49 9525 88-92200 | marketing@fraenkische.de | www.fraenkische.com

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