

EFLEX

underground electrical cable protective pipe
ท่อสายไฟฟ้าใต้ดิน



Benefits of EFLEX over burying cables

		Burying Cables Directly	EFLEX
Installation	Challenging terrain	No	Yes
	Cable Adjustment	Difficult	Easy
	Cable Organisation	No	Yes
	Damage risk	High	Low
	Regulatory Compliance	Compliance may vary	Easier to achieve
Operation	Cable Addition & Repair	Excavation Required	Cables can be pulled through to add, remove or repair
	Flame Retardant	No	Optional
	Cable Identification	Hard	Easy to label
	Security	None	Security against intentional tampering
	Protection	Susceptible to damage	Protection against unintentional damage, construction, soil conditions, moisture, & external elements

Benefits of EFLEX underground conduits over alternatives

Robust

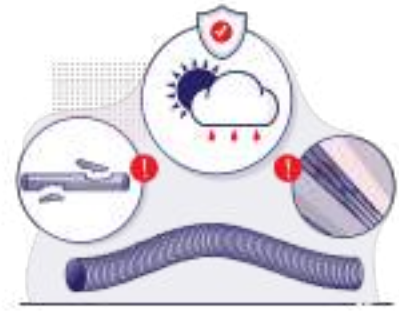
Corrugation improves structural integrity and compression strength



Can be buried shallow

Resilient

50+ years UV protection, weather corrosion resistance



Extends cable lifespan

Low Friction

Corrugation reduces cable contact and friction



Cable drawn at large intervals

Pliability

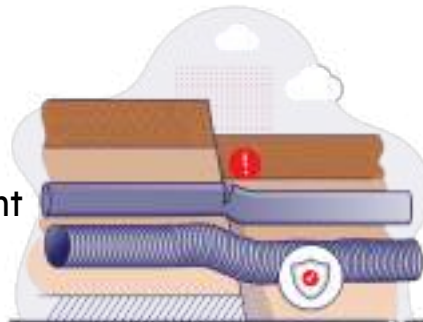
EFLEX is manually bendable to 5x outer diameter of conduit



Easier to avoid obstacles

Plasticity

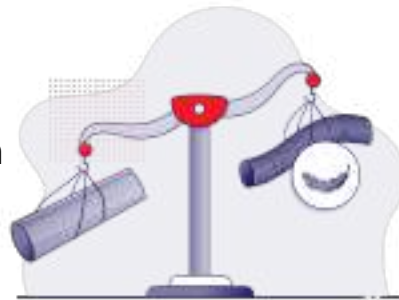
EFLEX is flexible and resistant to permanent deformation



Adapts to subsidence

Light

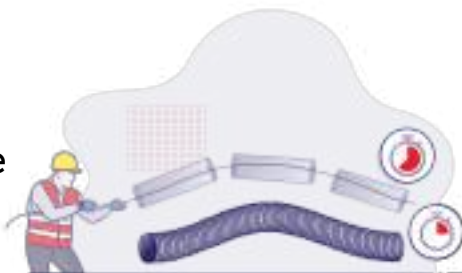
EFLEX is lighter than Hume, Steel and Vinyl pipes



Easy to transport and work

Continuous

EFLEX does not require coupling like other pipes



Lower installation time and resources

Economical

EFLEX offers overall cost savings due to these properties



Value for money

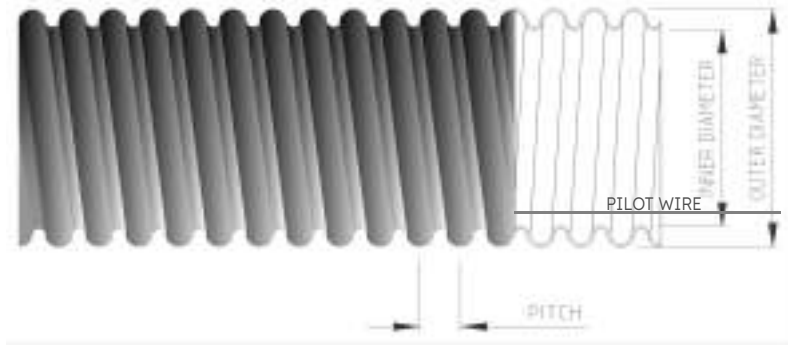
EFLEX Product Information

Pilot Wire

- 1.6mm Galvanised Wire
- Max Tensile 50 kg

EFLEX

- ϕ_i 30 to ϕ_i 200
- Shipped Coiled



Usage Information

EFLEX bend radius > $5\phi_{EFLEX}$
 ϕ_{EFLEX} should be > $1.5\phi_{cable}$ inside

Product Dimension Table

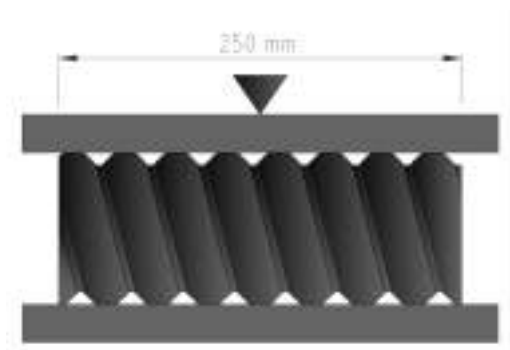
Size <small>UU1Q(mm)</small>	Outer $(mm)\phi_o$ Diameter	Inner $(mm)\phi_i$ Diameter	Pitch (mm)	Weight (kg/m)	Standard Roll (m)	Price S1A1 (฿/m)
30	40	30	10	0.23	300	95
50	65	50	17	0.36	200	128
80	102	80	25	0.80	100	194
100	130	100	32	1.10	100	275
125	160	125	39	1.60	100	385
150	188	150	47	2.30	50	462
200	253	200	55	3.90	50	772

Prolonged inactivity can lead to corrosion of pilot wires. When pulling in cables, replace pilot wires with order wires

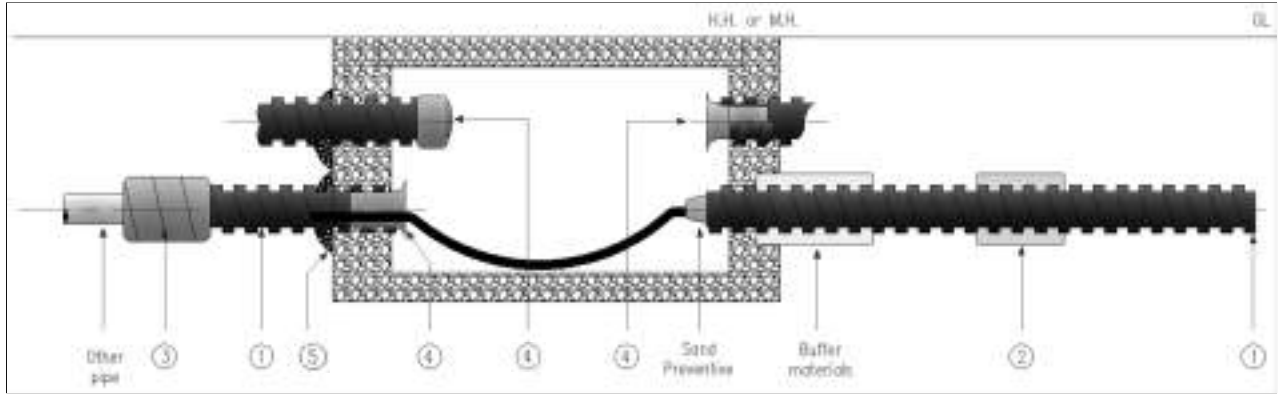
Flame retardant options available: UL 94 Class V-1 Standard

Product Flattened Compression Characteristics

Nominal Diameter <small>(mm)</small>	Load		Deformation ratio
	N	kgf	
30	373	38.0	$\leq 3.5\%$
50	612	62.5	$\leq 3.5\%$
80	969	98.9	$\leq 3.5\%$
100	1225	125.0	$\leq 3.5\%$
125	1518	154.9	$\leq 3.5\%$
150	1805	184.2	$\leq 3.5\%$
200	2412	246.1	$\leq 3.5\%$



EFLEX System



1. EFLEX 2. Straight Coupler 3. Internal Adaptor 4. Bellmouth with End Cover 5. Epoxy Putty

ข้อต่อ

EFLEX Accessories

ข้อต่อตรง

Straight Coupler

SC

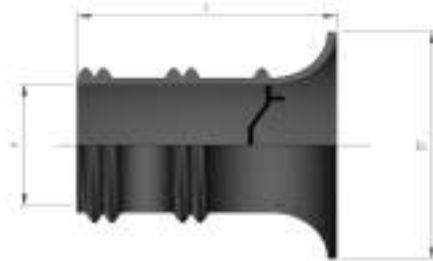


Size/ขนาด (mm)	D (mm)	L (mm)	Price/ราคา
30	48	100	37
50	73	150	80
80	112	200	100
100	140	250	181
125	172	350	221
150	203	400	256
200	273	450	424

ปากแตรพร้อมฝาปิด

Bellmouth with End Cover

BEC

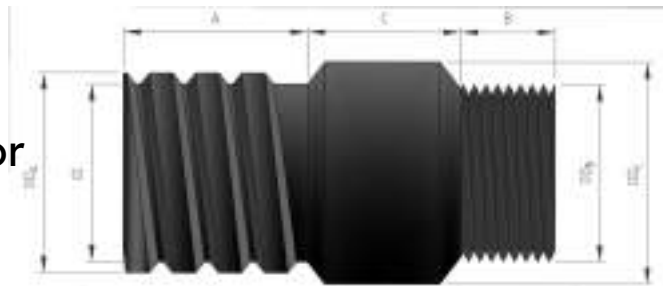


Size/ขนาด (mm)	DT (mm)	d (mm)	L (mm)	Price/ราคา
30	50	25.5	40	42
50	78	44.5	60	50
80	115	74.5	85	67
100	144	93.5	105	95
125	176	116	130	119
150	205	140.5	150	165

ข้อต่อPE

Internal Adaptor

IA



Size/ขนาด (mm)	A (mm)	OD _A (mm)	B (mm)	OD _B (mm)	C (mm)	OD _C (mm)	ID (mm)	Price/ราคา
30	35	36	20	RSC 1.0" / HDPE Ø32.0 mm	15	40	26.6	41
50	60	60	25	RSC 2.0" / HDPE Ø63.0 mm	15	63	45.8	53
80	90	90	35	RSC 3.0" / HDPE Ø90.0 mm	20	90	76.6	95
100	110	110	35	RSC 4.0" / HDPE Ø110.0 mm	20	110	96.8	183
125	135	140	35	RSC 5.0" / HDPE Ø140.0 mm	20	140	119.4	270
150	165	160	40	RSC 6.0" / HDPE Ø160.0 mm	20	160	144.6	280