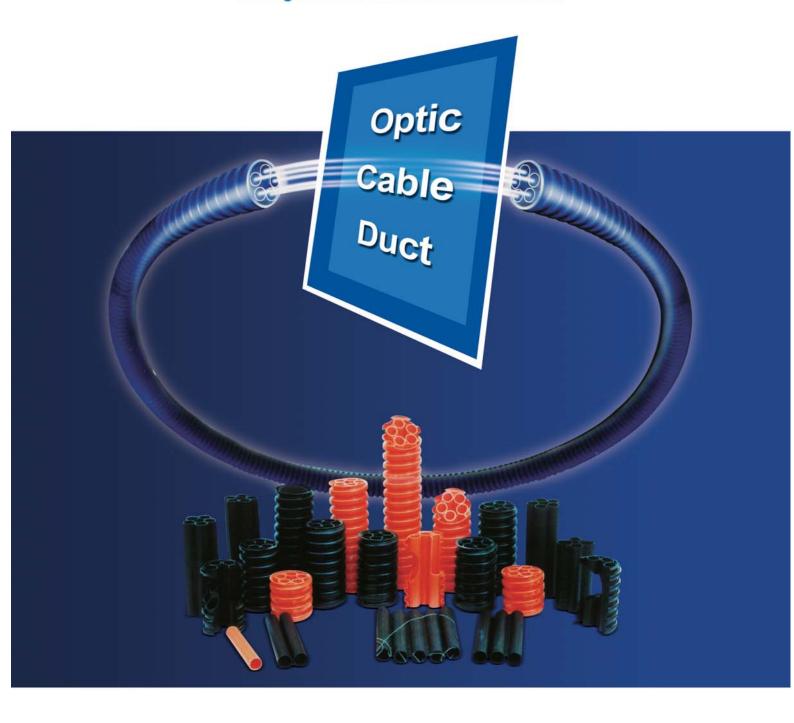
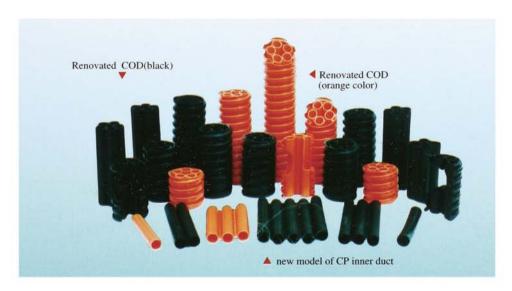
CORRUGATED OPTIC DUCT

COD opens and leads the New Era of Telecommunication & Underground Power Cable Infrastructures.









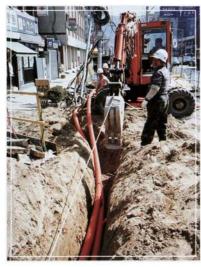
Owing to the assembly of inner ducts being straightened in the course of manufacture, easy insertion of Optic Cable without friction as well as great saving of Optic cable quantity is anticipated.

Length: 200^M/Roll ~ 800^M/Roll

(Customized length-cut is available)

< Comparison of conventional & COD Trench Dimension >

	Conventional		COD				
		0.8	0.3	0.5	0.6	0.5	0.5 0.6
Outer Duct	110mm×1 PVC		110mm×1 COD			110mm + 122mm COD	
Inner Duct	∮ 36 × 1 ∮ 28 × 2		♦ 28 × 5			♦ 28×5 ♦ 36×4	
	Total	3lines	Total	5line	es	Total	9lines



▲ Simultaneous in stallation.



▲ Passing-through under bridge.



▲ COD laying out of 400m long customized roll.



▲ Coupling works.



▲ Completed coupler



▲ Easy to handle owing to light weight (40meter roll without spool)



- a. individual connection works of conventional PVC outer ducts,
- b. insertion work of multiple inner ducts, owing the product being integrated both outer and inner ducts as readily built-in as onebody in the course of production.

COD prevents water inlet, and is highly recommended for underground duct of Power Cable.







▲ COD by-passes hurdles owing to its flexibility



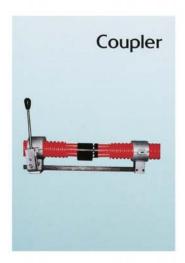




▲ Demonstration of straightend COD



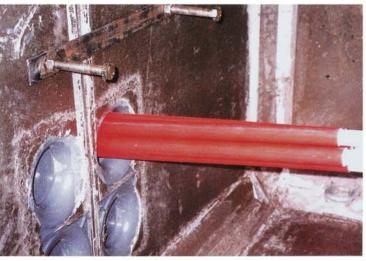
▲ Easy loading



Coupling work on jig



▲ Easy release from reel



▲ COD connected into manhole chamber







▲ Laying of COD through/under hurdles.



Laying of 3 COD lines at the same time, in a residential area.

▲ Installation along with bridge: COD with UV protection.



▲ Easy releasing COD from spool.



▲ Inlet of cable form pole.



 \blacktriangle Multiple COD line installation work for 500m mahole interval.



▲ Ready for connection manhole.





▲ Chamber of manhole with COD connected.



 ${\color{red} \blacktriangle}$ Temporary COD laying along walkway.



▲ Manhole connectors fixed on COD.

Taiwan CPC Project



Machines of COD installation



Model & Dimensions of COD

Code of	Inner duct		Dimensions of Inner Duct(mm)			Dimensions of Outer Duct(mm)			Unit Weight
Model	Section	Numbers	I.D.	Thickness	O.D.	I.D.	O.D.	Pitch	(Kg/meter)
COD-3B	8	3	28±1	2.5±0.5	33±1	72±2	93±2	25.4±1	1.70±
Inser	rtion of F	iber Optic	Cable:	Uı	nder ø 22.4	mm			
COD-3D	8	3	36±1	2.8±0.5	42±1	89±2	110±2	25.4±1	2.12±
Inser	ction of F	iber Optic	Cable:	Ur	nder ø 28.8	mm			
COD-4B	88		28±1	2.5±0.5	33±1	79±2	100±2	25.4±1	2.40±
Inser	tion of F	iber Optic	Cable:	Ur	nder ø 22.4	mm			
COD-4D	88	4	36±1	2.8±0.5	42±1	100±2	122±2	25.4±1	2.61±
Inser	tion of F	iber Optic	Cable:	Ur	nder ø 28.8	mm			argette"
COD-5B	8	5	28±1	2.5±0.5	33±1	89±2	110±2	25.4±1	2.27±
Inser	tion of F	iber Optic	Cable:	Ur	nder ø 22.4	mm			-HAR
COD-5AD	20	5	$4 \times 26 \pm 1$	2.5±0.5	31±1	89±2	110±2	25.4±1	2.20±
COD-SAD	800		1×36±1	2.8±0.5	42±				
Insertion	Insertion of Fiber Optic Cable			26mm: Under ≠ 20.8mm 36mm: Under ≠ 28.8mm					
UR E. I	Tolerance		±1mm	±0.5mm	± 1 mm	±2mm	± 2 mm	±1mm	

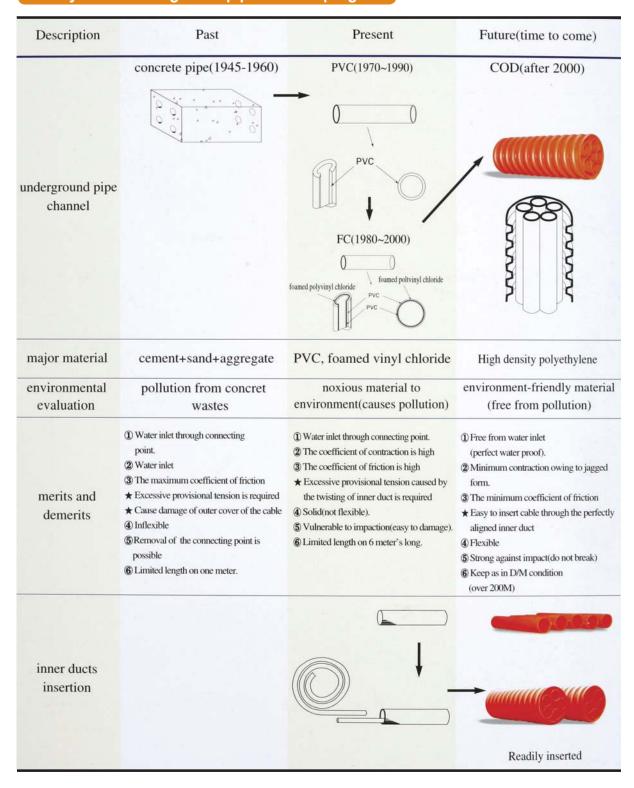
Reference:

- * Max. ϕ of inserting cables through COD:80% of internal ϕ of Inner Duct. * Max. ϕ of inserting cables through PVC duct:50% of internal ϕ of Inner Duct.

COD	5	AD	Remarks		
\	1	\	Code I.D.:		
Product Code	Total numbers of Inner Ducts		A → 26mm B → 28mm D → 36mm		

^{*} Explanation of Model Code:Example:(COD 5AD)

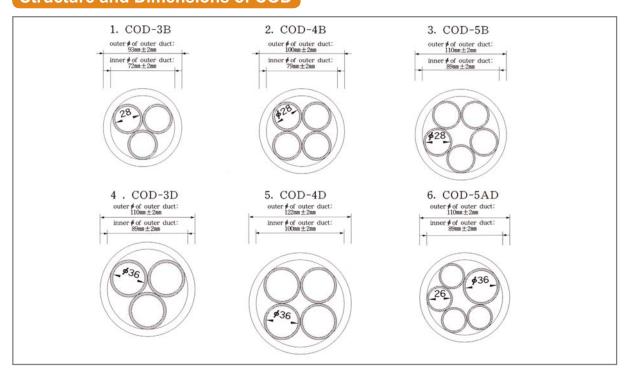
History of the underground pipe channel progress



Comparison between COD and conventional product

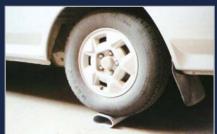
B 1.1	Conventional	products	New Product		
Description	PVC & FC duct	PE duct	CP duct	COD	
material	① PVC ② foamed polyvinyl chloride	Polyethylene	High density polyethylene	High density polyethylene	
shape	① Duct made of PVC ② PVC+foamed vinyl chloride+PVC duct ③ Flat surface of inside and outside duct.	① One piece duct made of Polyethylene ② Flat surface of inside and outside duct.	① The connected duct made of over two ducts with a jointed membrane ② Jaggy form.	Corrugated concavo- convex shape. Multiple inner ducts are readily built-in The inside of inner duct is protruded connecting	
connection	In every 6 meters.	None	None	None	
weight	medium	light	light	light	
working condition	medium	medium	fine	fine	
flexibility	medium	fine	fine	fine	
coefficient of friction	high	medium	low	low	
tension	high	high	low	low	
strength	weak	strong	strong	strong	
use of inner space		low	high	high	
torsion of the inner duct	- -	occur	free from torsion	free from torsion	
breakage		may occur	free from crash	free from crash	
color	grey	black	orange color	orange color	
environment-friendly	noxious property	innoxious	innoxious	innoxious	
economical efficiency	medium	medium	economical	economical	

Structure and Dimensions of COD



COD IS STRONG AGAINST LOAD.







Installed along with bridge

PVC Duct (soft)

COD



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