

SIMPLIFIED AND UNIFIED PERFORMANCE-BASED RANGE

The new CALIBRE® product range by Marley delivers a unified approach to cable ducting design, manufacture, and installation.

As a **fully featured PE and PVC cable duct range, CALIBRE CABLE DUCT Systems** is manufactured to the electrical purposed AS/NZS 61386 standard with product classification according to a performance-based mechanical duty rating.

FULLY FEATURED

> **Durability** range: Performance-based Mechanical Protection rating

> **Productivity** features: Saves time and money for improved trenching

Assurance credential: Product based sustainability practices, supporting

certifications (BEP), declarations (EPD) and licences

for compliance

EASE OF SELECTION



TRENCH

Unified solutions for open cut installations



TRENCHLESS

Unified solutions for HDD installations

			TRENCH	TRENCHLESS
	Ā	Category A Underground Wiring System	\checkmark	\checkmark
DURABILITY	VHD	Very Heavy Duty	\checkmark	\checkmark
	HD	Heavy Duty	\checkmark	\checkmark
	B	Category B Underground Wiring System	\checkmark	\checkmark
	MD	Medium Duty	\checkmark	\checkmark
		Service Temperature Range	\checkmark	✓
PRODUCTIVITY		Service ID	✓	√
	WHAT .	Metre Marked		\checkmark
	←→ LLLL	Custom Length		\checkmark
		Extensive PE Fittings		\checkmark
ASSURANCE	100	Extensive PVC Bends	\checkmark	
		PE / PVC 100% Recyclable	✓	✓
		Standards Compliance & Licence	✓	✓
		EPD Declaration	✓	✓

THE CALIBRE RANGE











SIZE (ID)	LENGTH (m)	DUTY	MATERIAL	ORANGE	GREEN	WHITE	RED	CRATE QUANTIT
20	6	Non Rated	PVC		TC20GRDUCT	TC20WHDUCT	700.20.6.RD	900
32	6	Non Rated	PVC	700.32.6.0				230
40	6	Non Rated	PVC	700.40.6.0				180
50	6	Non Rated	PVC	700.50.6.0	TC50GRDUCT	TC50WHDUCT.RRJ	700.50.6.RD	149 150 105
65	6	Non Rated	PVC	700.65.6.0				96
80	6	MD HD	PVC	700.80MD.6.0R 700.80HD.6.0R				66
100	6	MD HD VHD Non Rated	PVC	700.100MD.6.0R 700.100HD.6.0R 700.100VHD.6.0R TC110.0R.RRJ (KIWI Rail)	TC110GRDUCT	TC110WHDUCT.RRJ	700.100.6.RD	60
150	6	MD HD VHD	PVC	700.150MD.6.0R 700.150HD.6.0R 700.150VHD.6.0R				28
140 (OD)	12	HD	PE	600.140HD.12.OR				8
160 (OD)	12	VHD	PE	600.160VHD.12.OR				8







SIZE (OD)	DUTY	MATERIAL	COIL LENGTH 50m	COIL LENGTH 100m	COIL LENGTH 150m	COIL LENGTH 200m	COIL LENGTH 500m	COIL LENGTH 1000m
25	MD	MDPE				600.25MD.200.GN		
32	MD	MDPE				600.32MD.200.OR 600.32MD.200.GN 600.32MD.200.RD	600.32MD.500.OR 600.32MD.500.GN	600.32MD.1000.OR 600.32MD.1000.GN
40	MD	MDPE				600.40MD.200.OR		
50	HD	HDPE		600.50HD.100.OR 600.50HD.100.GN 600.50HD.100.RD				
63	HD	HDPE	600.63HD.50.GN	600.63HD.100.OR 600.63HD.100.GN 600.63HD.100.RD	600.63HD.150.GN 600.63HD.150.GN			
90	HD	HDPE		600.90HD.100.OR				
110	HD	HDPE	600.110HD.50.OR 600.110HD.50.GN	600.110HD.100.0R 600.110HD.100.GN 600.110HD.100.RD				
125	HD	HDPE		600.125HD.100.OR				
140	HD	HDPE	600.140HD.50.OR	600.140HD.100.OR				
160	VHD	HDPE	600.160VHD.50.OR	600.160VHD.100.OR				

TRENCH - UNDERGROUND INSTALLATION

WHY HEAVY DUTY CABLE DUCTING IS BEST PRACTICE

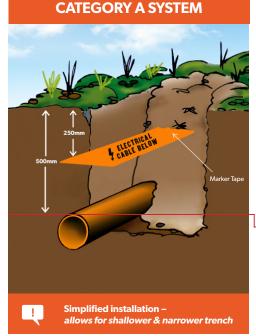
For trench underground wiring systems where there is no surface covering, significant labour, time and cost savings can be made when installing to CATEGORY A Underground Wiring system compared to CATEGORY B. Critically, the longer the trench the greater the savings.

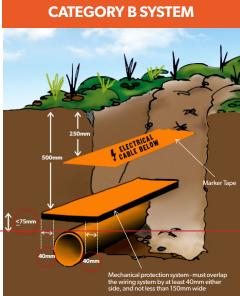
CATEGORY A SYSTEM

CALIBRE® Trench cable duct (Heavy Duty / Very Heavy Duty) where NO ADDITIONAL mechanical protection is required

CATEGORY B SYSTEM

CALIBRE® Trench cable duct (Medium Duty) where **ADDITIONAL** mechanical protection is required





TRENCHLESS - STANDARDS & SPECIFICATION

The following table illustrates the interrelationship between the wiring rules, manufacturing standards, jointing specifications and towing loads.

	AS/NZS 3000	AS/NZ 61386				
DN	UNDERGROUND WIRING RULES	DUTY	SN	DIMENSIONS (OD, T, OVALITY)		
20		MD	N/A			
25	OATEOODY D					
32	CATEGORY B			AS/NZS 4130 (TABLE 2) (FITTING/JOINTING COMPATIBILITY)		
40						
50						
63		HD				
90	CATEGORY A					
110			>10			
125						
140						
160		VHD	>25			

(ELECTRO	TOWING LOADS	
SDR	MATERIAL DENSITY	Force (KN) (@20°C)
9		0.78*
11	MEDIUM DENSITY	1.18*
13.6	(MDPE)	2.65*
17		2.16
13.6		3.14
		4.91
	HIGH DENSITY (HDPE)	10.79
17		15.70
17		20.60
		24.53
		33.35

NOTES

- 1. For AS/NZS 3000 Category A underground wiring systems, Heavy or Very Heavy Duty cable ducting is best suited for trenchless applications given the inability to install additional mechanical protection.
- 2. For AS/NZS 3000 Category B underground wiring systems, medium duty cable ducting is best suited for sub ducting applications
- 3. Please refer to specific Electrical Distribution Network policies and procedures which may differ to the above specification
- 4. *It is recommended that the smaller diameters be pulled by hand.

PRODUCT AUTHENTICITY

Not all brands of Cable Duct in the market perform to the same level. For proof of intended performance, check the mandatory print requirements that are marked on the Cable Duct.



- Manufacturer and/or brand name identification
- 2 Designed specifically to protect electrical wiring
- Classification Rating(VHD = Very Heavy Duty)(HD = Heavy Duty)(MD = Medium Duty)
- Compression Duty / Ring Stiffness Rating (Rating 5 = Very Heavy Duty) (Rating 4 = Heavy Duty) (Rating 3 = Medium Duty)
- 5 Impact Duty Rating
 (Rating 5 = Very Heavy Duty)
 (Rating 4 = Heavy Duty)
 (Rating 3 = Medium Duty)

- 6 Minimum Service Temperature rating (Rating 3 = -15°c)
- Maximum Service Temperature rating (Rating 1 = 60°c)
- Resistance to burning (PE duct only = flame propagating)
- 9 Cable Duct manufacturing standard
- 10 3rd party Licence Verification for the specific manufacturing site
- 11 Exact date and time of manufacture
- Marley item code for easy tracking PVC = 700 Series PE = 600 Series
- 13 Recyclability

PROOF OF ASSURANCE

Certifications and standards to demonstrate compliance and ensure quality is consistency achieved each and every time.









Bureau Veritas provides independent third-party verification of compliance in the manufacture of CALIBRE. Licences are issued by manufacturing location.

Manurewa: BV Lic. 2755 Horotiu: BV Lic. 2970 Tinwald: BV Lic 2806