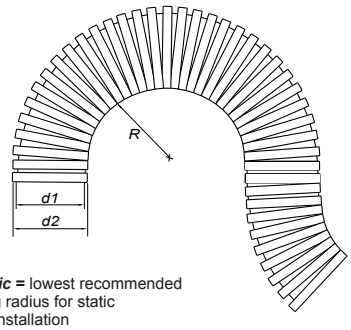
MOLTEC International — UCV Very Flexible, Medium Duty Conduit

This general use, all around conduit delivers very good flexibility, impact and fatigue strength making it an ideal fit for use in a wide range of application areas. This UL Listed conduit ensures compliance with the National Electrical Code (NEC) and the Canadian Electrical Code (CEC).

c UL us LISTED — RoHS 2002/95/EC — CE

- High-grade, specially formulated polyamide 6
- Halogens and cadmium free
- Good mechanical strength (compression / impact)
- Good weather and UV resistance
- Self-extinguishing
- Temperature range: -40°C(-40°F) to 105°C(221°F)
- Short-term to 160°C(320°F)

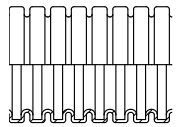


Rs *static* = lowest recommended bending radius for static (fixed) installation

PROFILE NW

UCV-CK17.50

TYPE COLOUR PU



Coarse Profile **C**
High pull-out strength

Specifications are subject to change without notice

UCV

Order No.	Conduit Size	Trade Size		*d1*		*d2*		*Rs Static*		PU	
	NW	mm	in	mm	in	mm	in	mm	in	m	ft
UCV-CK17.50	17	20	1/2	15.3	0.60	21.2	0.83	40.0	1.57	50	164.0
UCV-CK23.50	23	25	3/4	21.9	0.86	28.5	1.12	45.0	1.77	50	164.0
UCV-CK29.50	29	32	1	27.6	1.09	34.5	1.36	55.0	2.17	50	164.0
UCV-CK36.30	36	40	1-1/4	36.0	1.42	42.5	1.67	60.0	2.36	30	98.4
UCV-CK48.30	48	50	1-1/2	47.0	1.85	54.5	2.15	70.0	2.76	30	98.4

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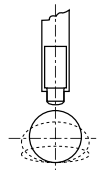
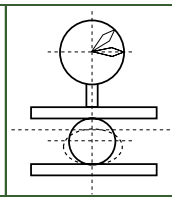
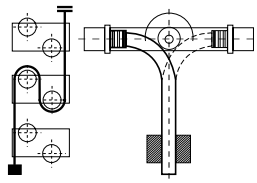
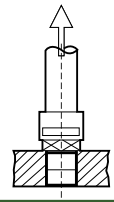
MECHANICAL CHARACTERISTICS	STANDARD REFERENCE	METHOD OF TESTING		VALUES	UNIT
Impact Strength	IEC EN 61386	The Conduit is impacted with a spherical object weighing 2 kg and having a 300 mm radius. The height of the drop is equal to 1.2 meters.		> 2/ [2] (-45°C)	J / Class
				> 4/ [3] (-15°C)	J / Class
				>12/ [4] (23°C)	J / Class

Compression Strength	20% / 2 min.	The Conduit is compressed with a 100 mm steel plate for a period of time, reducing the conduit diameter by 25%.		Compression Force	Under Load Deformation	N
Tested with conduit:	50x50 mm					
NW 17	Internal Method			≥ 600	3.1 mm	N
NW 29				≥ 800	2.4 mm	N
NW 48				≥ 450	1.8 mm	N

Fatigue Strength	23°C / 50% r.h.	The Conduit is continuosly subjected to horizontal and vertical movements. The full movements are counted.		≥ 125,000.00	Cycles at 23°C
	Internal Method				

Pull-Out Strength	20% / 2 min.	The Conduit with the respective connector is subjected to increasing pull-out strength until test uncouples.		Pulling Force	Residual Elongation	N
Tested with Grip Lock Fitting:	50x50 mm					
NW 17	Internal Method			≥ 529	2%	
NW 29				≥ 933	2%	
NW 48				≥ 1543	2%	

THERMAL CHARACTERISTICS	VALUES		UNIT
Operating Temperature	-40°C to 105°C		Celsius
Short Period of time	110°C	20,000 hours	
	150°C	168 hours	

FIRE CHARACTERISTICS	STANDARD REFERENCE	VALUES	UNIT
Oxygen Index	EN ISO 4589-1	≥ 28	%
Halogens Contents	DIN 53474	FREE	
Flame Class	UL94	V2	
Self-Extinguishing	IEC EN 61386	YES	
Glowing Flammability Index	EN 60695-2-10	850°C	Celsius

WEATHERING RESISTANCE	STANDARD REFERENCE	VALUES
Weathering UV / Rain Cycle		GOOD
UV Aging	ISO 4892 -2	≥ 2,000 hours

CHEMICAL PROPERTIES	VALUES
Resistance against fuel, mineral based oils, grease, alkalis & weak acids	EXCELLENT

ENVIRONMENTAL PROPERTIES	STANDARD REFERENCE	VALUES
ROHS Compliant	EU Directive 2002 / 95 / EC	YES
Recyclable		YES
UV Resistant		YES