

## Hybrid &amp; Power Distribution Systems

**MLEH 6x6, 10mm<sup>2</sup>, SM, PC to blunt cut, Q-ODC-2 to LC**

MLEH66-10M-0-10QG-008U-...\_\_SS

**Properties**

Integral earth point which can be connected to an earth lead with M8 ring terminal



General data	
Product family	MASTERLINE Extreme Hybrid
Hybrid System Configuration	6 Conductor pairs / 6 Fiber pairs
Installation temperature	-10 °C ... 50 °C
Operation temperature	-40 °C ... 75 °C
Storage temperature	-40 °C ... 75 °C
UV Resistance standard	EN ISO 4892-2
Ingress protection (IP Rating)	IP67
IP comment	IP rating valid on radio end with a harsh environment connector.
Vibration test standard	IEC 61300-2-1
Vibration test value	passed 10 to 500 Hz / 10g
Salt mist test standard	IEC 61300-2-26
Salt mist test duration	96 h
Shock test standard	IEC 61300-2-9
Shock test value	passed 100g

Side A / Left - Fiber	
FO connector family	Q-ODC®
Interface type fiber	connectorized
Amount of FO Connectors	6 pcs
Mating cycles with repeated cleaning	200
Gender FO Connector	Extension
Polishing	UPC
Insertion loss 97%	≤ 0.45 dB
Insertion loss typical	≤ 0.2 dB
Return loss	≥ 50 dB
Breakout type FO	staggered
Breakout quantity	6 pcs
Shortest breakout length FO	500 mm

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Side A / Left - Fiber	
Protection tube	Pulling tube with pulling eye

Side A / Left - Power	
Amount of Power connectors	6 pcs
Interface type power	connectorized
Power Connector type	Inline receptacle
Amount of contacts	3 pcs
Hot pluggable	No
Breakout type Power	equal length
Breakout quantity power	6 pcs
Shortest breakout length Power	500 mm

Side B / Right - Fiber	
FO connector family	LC
Interface type fiber	connectorized
Clip type	Uniboot
Clip family	Classic
Amount of FO Connectors	12 pcs
Mating cycles with repeated cleaning	1000
Mechanical interface standards	IEC 61754-20, TIA 604-10-A (LC)
Gender FO Connector	Plug
Polishing	UPC
Insertion loss 97%	≤ 0.25 dB
Insertion loss typical	≤ 0.12 dB
Return loss	≥ 50 dB
Divider type	Classic small
Divider thread size	M16 x 1.0
Build-in hole dimension	15.6 mm ... 16.4 mm
Breakout type FO	staggered
Breakout quantity	6 pcs
Shortest breakout length FO	550 mm
Protection tube	Protection tube without pulling eye

Side B / Right - Power	
Interface type power	blunt cut
Breakout type Power	equal length
Breakout quantity power	12 pcs
Shortest breakout length Power	180 mm

Cable data	
Amount of Conductors	12 pcs
Conductor cross section in mm <sup>2</sup>	10 mm <sup>2</sup>
Conductor Class Standard	IEC 60228
Conductor class	Class 2
Conductor current rating	31 A
Operating voltage	0.6 kV AC / 1kV DC
Outer jacket diameter	28 mm
Outer jacket material	LSFH TM thermoplastic TPE-HF
Resistance of core	1.83 Ω/km
CPR class	Dca-s1,d2,a1
Amount of strands per drain wires	7 pcs

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Cable data	
Drain wire cross section	10 mm <sup>2</sup>
Cable Description	6x6 Hybrid Cable, 12x10mm <sup>2</sup> , 1x12F, SM, #D
Cable screen material	Copper
Cable screen type	Foil
Minimal bending radius during installation	280 mm
Minimal bending radius in operation	224 mm
Total fiber quantity	12 pcs
Number of optical fiber cables	1 pcs
UV Resistance	Yes
Weight per length	1723 g/m
Fiber type	E9/125A2
FO Cable Outer jacket diameter	5mm

**Channel Allocation Fiber**

Fiber Optic					
Side A			Side B		
RRH	connector no.	PIN	PIN	marking sleeve no.	break-out length
1	1R	1	B	1	800 ± 25
		2	A		
2	2R	1	B	2	750 ± 25
		2	A		
3	3R	1	B	3	700 ± 25
		2	A		
4	4R	1	B	4	650 ± 25
		2	A		
5	5R	1	B	5	600 ± 25
		2	A		
6	6R	1	B	6	550 ± 25
		2	A		

**Channel Allocation Power**

Power						
RRH		Side A			Side B	
#	Pin	Label	Wire color		Wire no. (global version)	Wire color (UL version)
			H+S	E///		
1	1	1	brown	black	1	Black
	2		blue	grey	2	White
	⊥		drain	drain	drain	drain
2	1	2	brown	black	3	Red
	2		blue	grey	4	Green
	⊥		drain	drain	drain	drain
3	1	3	brown	black	5	Orange
	2		blue	grey	6	Blue
	⊥		drain	drain	drain	drain
4	1	4	brown	black	7	White/ black
	2		blue	grey	8	Red/ black
	⊥		drain	drain	drain	drain
5	1	5	brown	black	9	Green/ Black
	2		blue	grey	10	Orange/ Black
	⊥		drain	drain	drain	drain
6	1	6	brown	black	11	Blue/ Black
	2		blue	grey	12	Black/ White
	⊥		drain	drain	drain	drain

**Packaging information**

Reel 92000020	
Spool material	Wood
Wound up on the spool	Standard
Width (A)	815 mm
Flange Diameter (B)	900 mm
Core diameter (C)	500 mm
Central hole (D)	80 mm

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Packaging information	
	<b>Reel 92000020</b>
Stacking factor	1
Packaging Dimensions (LxWxH)	1200mm x 800mm x 1044mm
Packaging cycle	one-way
Storage condition	Keep dry

Ordering Information Table			
Item number	Item description	Length in m	Packaging type
85001323	MLEH66-10M-0-10QG-008U-060__SS	60	Reel 92000020
85001324	MLEH66-10M-0-10QG-008U-070__SS	70	Reel 92000020
85001325	MLEH66-10M-0-10QG-008U-080__SS	80	Reel 92000020
85001326	MLEH66-10M-0-10QG-008U-090__SS	90	Reel 92000020
85001327	MLEH66-10M-0-10QG-008U-100__SS	100	Reel 92000020
85091024	MLEH66-10M-0-10QG-008U-125__SS	125	Reel 92000020
85094116	MLEH66-10M-0-10QG-008U-140__SS	140	Reel 92000020
85088877	MLEH66-10M-0-10QG-008U-150__SS	150	Reel 92000020

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