

Harsh environment cable system

**MLC-HT, 48F, 24x LC/PC duplex, 24xLC/PC duplex, SM A2**

HH048\_J.....\_MG045ZG055Z8U8USS

### Properties

- Pre-assembled plug & play cabling system
- Ruggedised design with robust pulling tube
- Breakouts numbered for easy channel identification



General data	
Cable system family	MASTERLINE Classic
Application Area	Outdoor
Fiber quantity	48 pcs
Operation temperature	-40 °C ... 75 °C
Installation temperature	-10 °C ... 50 °C

Side A / Left	
Type	Fiber Optic Connector
Connector family	LC
Gender	Plug
Housing colour FO Connector	Black
Clip type	Uniboot
Clip family	Classic
Boot colour	Black
Mating cycles with repeated cleaning	1000
Mechanical Interface Standard	IEC 61754-20, TIA 604-10-A (LC)
Polishing	UPC
Endface polishing angle	0°
Insertion loss 97%	≤ 0.25 dB
Insertion loss typical	≤ 0.12 dB
Return loss	≥ 50 dB
Breakout type FO	staggered
Shortest breakout length FO	450 mm
Longest breakout length FO	1000 mm
Breakout quantity	24 pcs

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<b>Side B / Right</b>	
Type	Fiber Optic Connector
Connector family	LC
Gender	Plug
Housing colour FO Connector	Black
Clip type	Uniboot
Clip family	Classic
Boot colour	Black
Mating cycles with repeated cleaning	1000
Mechanical Interface Standard	IEC 61754-20, TIA 604-10-A (LC)
Polishing	UPC
Endface polishing angle	0°
Insertion loss 97%	≤ 0.25 dB
Insertion loss typical	≤ 0.12 dB
Return loss	≥ 50 dB
Breakout type FO	staggered
Shortest breakout length FO	550 mm
Longest breakout length FO	900 mm
Breakout quantity	24 pcs

<b>Fiber Optic Cable</b>	
Cable Description	Glass armoured multi fiber loose tube cable
Fiber quantity	48
Fiber type	E9/125A2
CPR class	Dca-s1a,d0,a1
Strain relief	glass-roving
Outer jacket diameter	9.6mm
Outer jacket material	LSFH
Tensile strength during installation	9000 N
Tensile strength in service	4000 N
Min. bending radius during installation	140 mm
Min. bending radius in service	140 mm
Crush resistance during installation	6000 N/dm
Crush resistance in service	3000 N/dm
Fire propagation standard	IEC 60332-1-2 IEC 60332-3-25

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**Channel Allocation Fiber**

Connector side A			Fiber	Marking	Connector side B		
Connector 1	A	1000 ±15	1	1	900 ±25	B	Connector 1
	B		2			A	
Connector 2	A	1000 ±15	3	2	900 ±25	B	Connector 2
	B		4			A	
Connector 3	A	1000 ±15	5	3	900 ±25	B	Connector 3
	B		6			A	
Connector 4	A	950 ±15	7	4	850 ±25	B	Connector 4
	B		8			A	
Connector 5	A	950 ±15	9	5	850 ±25	B	Connector 5
	B		10			A	
Connector 6	A	950 ±15	11	6	850 ±25	B	Connector 6
	B		12			A	
Connector 7	A	900 ±15	13	7	800 ±25	B	Connector 7
	B		14			A	
Connector 8	A	900 ±15	15	8	800 ±25	B	Connector 8
	B		16			A	
Connector 9	A	900 ±15	17	9	800 ±25	B	Connector 9
	B		18			A	
Connector 10	A	850 ±15	19	10	750 ±25	B	Connector 10
	B		20			A	
Connector 11	A	850 ±15	21	11	750 ±25	B	Connector 11
	B		22			A	
Connector 12	A	850 ±15	23	12	750 ±25	B	Connector 12
	B		24			A	
Connector 13	A	600 ±15	25	13	700 ±25	B	Connector 13
	B		26			A	
Connector 14	A	600 ±15	27	14	700 ±25	B	Connector 14
	B		28			A	
Connector 15	A	600 ±15	29	15	700 ±25	B	Connector 15
	B		30			A	
Connector 16	A	550 ±15	31	16	650 ±25	B	Connector 16
	B		32			A	
Connector 17	A	550 ±15	33	17	650 ±25	B	Connector 17
	B		34			A	
Connector 18	A	550 ±15	35	18	650 ±25	B	Connector 18
	B		36			A	
Connector 19	A	500 ±15	37	19	600 ±25	B	Connector 19
	B		38			A	
Connector 20	A	500 ±15	39	20	600 ±25	B	Connector 20
	B		40			A	
Connector 21	A	500 ±15	41	21	600 ±25	B	Connector 21
	B		42			A	
Connector 22	A	450 ±15	43	22	550 ±25	B	Connector 22
	B		44			A	
Connector 23	A	450 ±15	45	23	550 ±25	B	Connector 23
	B		46			A	
Connector 24	A	450 ±15	47	24	550 ±25	B	Connector 24
	B		48			A	

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Ordering Information Table		
Item number	Item description	Length in m
85074331	HH048_J0020A_MG045ZG055Z8U8USS	20
85074332	HH048_J0030A_MG045ZG055Z8U8USS	30
85074333	HH048_J0040A_MG045ZG055Z8U8USS	40
85074334	HH048_J0050A_MG045ZG055Z8U8USS	50
85074335	HH048_J0060D_MG045ZG055Z8U8USS	60
85074336	HH048_J0070D_MG045ZG055Z8U8USS	70
85074337	HH048_J0080D_MG045ZG055Z8U8USS	80
85074338	HH048_J0090D_MG045ZG055Z8U8USS	90
85074339	HH048_J0100D_MG045ZG055Z8U8USS	100
85121544	HH048_J0120D_MG045ZG055Z8U8USS	120
85074340	HH048_J0125D_MG045ZG055Z8U8USS	125
85121546	HH048_J0135D_MG045ZG055Z8U8USS	135
85074341	HH048_J0150D_MG045ZG055Z8U8USS	150
85074342	HH048_J0200E_MG045ZG055Z8U8USS	200
85121547	HH048_J0230D_MG045ZG055Z8U8USS	230
85121548	HH048_J0250D_MG045ZG055Z8U8USS	250
85088821	HH048_J0300D_MG045ZG055Z8U8USS	300

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