

capacity of U-RC DLP trunking systems for installation

■ New standard EN 50085-2-1

Classification EN 50085-2-1		Level
6.1	Void	
6.2	Resistance to impact for installation and application	2.0 J
6.3	Minimum storage and transport temperature	- 25 °C
6.3	Minimum installation and application temperature	- 5 °C
6.3	Maximum application temperature	+ 60 °C
6.4	Resistance to flame propagation	Non-flame propagating
6.5	Electrical continuity characteristic	Without electrical continuity characteristic
6.6	Electrical insulating characteristic	With electrical insulating characteristic
6.7	Degrees of protection provided by enclosure	IP 40
6.9	System access cover retention	With a tool
6.101	Position when surface mounted	Wall fixed, ceiling fixed, wall fixed and supported by the floor or other horizontal surface
6.102	Prevention of contact between liquids and insulated conductors and live parts in case of CTS/CDS mounted in a skirting position and wet-treatment of floor	Instructions restricting the installation position
6.103	The functions provided	Type 2: 0 104 32/33/52/53, type 3: other Cat.Nos
Rated current		500 V
Against mechanical shocks		IK 07

Type 1, type 2 distribution, type 3 installation

Insulation resistance : all the DLP plastic range (including accessories) insulation resistance superior to 5 megohms

CV : Cover

1 Cross-section in mm² (or diameter for ELV cables) depending on number of conductors

Normal cross-section of cores (mm ²)	Cable									
	1 conductor		2 conductors		3 conductors		4 conductors		5 conductors	
	Usable cross-section (mm ²)	Maximum Ø (mm)	Usable cross-section (mm ²)	Maximum Ø (mm)	Usable cross-section (mm ²)	Maximum Ø (mm)	Usable cross-section (mm ²)	Maximum Ø (mm)	Usable cross-section (mm ²)	Maximum Ø (mm)
1.5	44	6.6	111	10.5	121	11.0	144	12.0	169	13.0
2.5	49	7.0	133	11.5	157	12.5	169	13.0	211	14.5
4	58	7.6	169	13.0	183	13.5	211	14.5	256	16.0
6	68	8.2	196	14.0	225	15.0	256	16.0	307	17.5
10	85	9.2	256	16.0	289	17.0	343	18.5	400	20.0
16	111	10.5	43	18.5	381	19.5	441	21.0	529	23.0
25	157	12.5	484	22.0	553	23.5	651	25.5	784	28.0
35	183	13.5	601	24.5	676	26.0	813	28.5	993	31.5
50	225	15.0	-	-	841	29.0	1 057	32.5	-	-

Example

A - Description :
 2 cables 3 x 1.5² • 4 cables 4 x 2.5²
 10 cables 4 x 4²

B - Calculation of cumulative cable cross-sections:
 See table 1

	Theoretical cross-section (mm ²)	Practical cross-section (mm ²)
2 cables 3 x 1.5 ²	2 x 121 = 242	
4 cables 4 x 2.5 ²	4 x 169 = 676	
10 cables 4 x 4 ²	10 x 211 = 2 110	
TOTAL	3 028	3 330*

*K (filling factor) = 1.10 Section = 3 028 x 1.10 = **3 330 mm²**

C - Trunking selection
 See table 2

2 Capacity of trunking (CV : Cover)

	Cross-section (mm ²) Max. Ø (mm)	80 x 50		105 x 50			
		CV65	CV40	CV40	CV40	CV85	
Trunking only	Cross-section	3380	1930	1930	4330		
	Max. Ø	40	28	43	28		
With Arteor™ support	Cross-section	1830	1410	1410	2300		
	Max. Ø	2 x 18	2 x 21	2 x 21	2 x 24		

	Cross-section (mm ²) Max. Ø (mm)	150 x 50								
		CV40	CV40	CV40	CV65	CV65	CV65	CV40	CV85	CV130
Trunking only	Cross-section	2000	1570	2000	3020	3020	2000	4020	6470	
	Max. Ø	28	28	43	43	2x43	43	28	28	
With Arteor™ support	Cross-section	1480	1050	1480	1470	1470	1480	1990	-	
	Max. Ø	24	2x17	24	18	18	24	26	-	

	Cross-section (mm ²) Max. Ø (mm)	195 x 50																	
		CV40	CV40	CV40	CV40	CV65	CV40	CV65	CV65	CV40	CV40	CV85	CV40	CV130	CV40	CV85	CV85	CV180	
Trunking only	Cross-section	2000	1570	1570	2000	3020	1570	3020	3020	2580	2000	2000	3590	2000	6040	2000	4020	4020	8470
	Max. Ø	28	28	28	28	43	28	43	43	42	28	28	42	28	2 x 42	28	43	43	3 x 42
With Arteor™ support	Cross-section	1480	1050	1050	1480	1470	1050	1470	1470	1030	1480	1480	1560	1480	-	1480	1990	1990	-
	Max. Ø	2 x 21	2 x 17	2 x 17	2 x 21	18	2 x 17	18	18	14	2 x 21	2 x 21	2 x 18	2 x 21	-	2 x 21	26	26	-

DLP U-VC adaptable trunking systems for installations

base, covers, partitions, finishing accessories and mounting wiring accessories

Selection chart for Installation of trunking, Accessories and Arteor™

Trunking			Covers		Clip on partition		Arteor™ frames				
Number of compartments	Cover(s) width	Section (mm)	Flexible	Partitions separation	Plastic	Aluminium	1 module	2 module	3 module	4 module	6 module
0104 12	1 1 x 65	80 x 50	0105 21	0105 82	-	-	-	0109 21	0109 31	0109 41	0109 61
0104 22	1 1 x 85	105 x 50	0105 22	0105 82	-	-	-	0109 22	0109 32	0109 42	0109 62
	2 2 x 40		0105 20	0105 82	0104 72	0111 06	0109 10	-	-	-	-
0104 32	1 1 x 130	150 x 50	0105 24	0105 82	-	-	-	-	-	-	-
	2 2 x 65		0105 21	0105 82	0104 72	0111 06	-	0109 21	0109 31	0109 41	0109 61
	2 1 x 40 + 1 x 85		0105 20 + 0105 22	0105 82	0104 72	0111 06	0109 10	0109 22	0109 32	0109 42	0109 62
	3 3 x 40		0105 20	0105 82	0104 72 x 2	0111 06 x 2	0109 10	-	-	-	-
0104 52	1 1 x 180	195 x 50	0105 26	0105 82	-	-	-	-	-	-	-
	2 2 x 85		0105 22	0105 82	0104 72	0111 06	-	0109 22	0109 32	0109 42	0109 62
	2 1 x 40 + 1 x 130		0105 20 + 0105 24	0105 82	0104 72	0111 06	0109 10	-	-	-	-
	3 1 x 85 + 2 x 40		0105 22 + 0105 20	0105 82	0104 72 x 2	0111 06 x 2	0109 10	0109 22	0109 32	0109 42	0109 62
	3 1 x 40 + 2 x 65		0105 20 + 0105 21	0105 82	104 72 x 2	111 06 x 2	0109 10	0109 21	0109 31	0109 41	0109 61
	4 4 x 40		0105 20	0105 82	0104 72 x 3	0111 06 x 3	0109 10	-	-	-	-

Selection chart for Installation trunking, Accessories and Arteor™

Section (mm)	Wall crossing	Capacity change to increase height of trunking	Partition junction for capacity change	Cable tie base	Insulating unit for Arteor™ modules		Earth link
					2 module can be added to get 4/6 module	3 module	
80 x 50 / 105 x 50	0106 98	0106 87 + 0106 88	0106 89	0308 81	0109 27	0109 37	0111 88
150 x 50 / 195 x 50	0106 99						

Selection chart for Installation of trunking, Additional accessories

Cover	Bases		Internal angles 80° - 100°			External angles 60° - 120			Flat angles		Flat junction			Clips
	Joint for covers	Base joint	End caps	Angles	Partition junction	VDI access.	Angles	Partition junction	VDI access.	Angles	VDI access.	Angles	Partition junction	
0108 01	0106 91	0107 22	0106 02	-	0107 80	0106 22	-	0107 81	0107 67	0107 82	0107 32	-	0107 83	0106 82
0108 02	0106 91	0107 02	0106 02	-	0107 80	0106 22	-	0107 81	0107 85	0107 82	0107 32	-	0107 83	0106 82
0108 00	0106 91	0107 02	0106 02	0106 11	-	0106 22	0106 32	-	-	-	0107 32	0107 42	-	0106 82
0108 04	0106 91	0107 06	0106 02	-	-	0106 22	-	-	0107 89	-	0107 32	-	-	0106 86
0108 01	0106 91	0107 06	0106 02	0106 11	0107 80	0106 22	0106 32	0107 81	0107 89	0107 82	0107 32	0107 42	0107 83	0106 82
0108 02	0106 91	0107 06	0106 02	0106 11	0107 80	0106 22	0106 32	0107 81	0107 89	0107 82	0107 32	0107 42	0107 83	0106 82
0108 00	0106 91	0107 06	0106 02	0106 11x2	-	0106 22	0106 32x2	-	0107 89	-	0107 32	0107 42	-	0106 82
0108 06	0106 91	0107 07	0106 02	-	-	0106 22	-	-	0107 92	-	0107 32	-	-	0106 86
0108 02	0106 91	0107 07	0106 02	0106 11	0107 80	0106 22	0106 32	0107 81	0107 92	0107 82	0107 32	0107 42	0107 83	0106 82
	0106 91	0107 07	0106 02	0106 11	0107 80	0106 22	0106 32	0107 81	0107 92	0107 82	0107 32	0107 42	0107 83	
	0106 91	0107 07	0106 02	0106 11x2	0107 80	0106 22	0106 32x2	0107 81	0107 92	0107 82	0107 32	0107 42	0107 83	0106 82
	0106 91	0107 07	0106 02	0106 11x2	0107 80	0106 22	0106 32x2	0107 81	0107 92	0107 82	0107 32	0107 42	0107 83	0106 82
0108 00	0106 91	0107 07	0106 02	0106 11x3	-	0106 22	0106 32x3	-	0107 92	-	0107 32	0107 42	-	0106 82