



Railguard
Wires and cables for rail systems

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Introduction

Habia Cable has more than 30 years experience in the design and manufacture of wires and cables for demanding applications. With a comprehensive understanding of the customers' requirements and applications ranging from permanent installations to highly dynamic applications, we have worked closely with engineers to supply interconnection solutions that will fulfil all aspects of a system's functionality and reliability.

Enquiries from our extensive network of sales offices are synchronised by our technical design team to ensure a 'fit for purpose' solution that meets the demanding requirements of developing new rolling stock for the underground and mass transit platforms.

Small size and light weight properties, along with oil and fluid resistance, flexibility and flex-life, abrasion resistance and screening effectiveness are just some of the typical factors which are carefully considered when designing for the railways.

The Railguard concept is designed and manufactured to comply fully with the criteria set out to the following CENELEC rolling stock standards:

EN 50264-1

General requirements

- Insulation:
 - EI 101 Low temperature resistant, oil resistant
 - EI 102 Extra low temperature resistant, oil resistant
 - EI 103 Low temperature resistant, extra oil and fuel resistant
 - EI 104 Extra low temperature resistant, extra oil and fuel resistant
- Sheath:
 - EI 101 Low temperature resistant, oil resistant
 - EI 102 Extra low temperature resistant, oil resistant
 - EI 103 Low temperature resistant, extra oil and fuel resistant
 - EI 104 Extra low temperature resistant, extra oil and fuel resistant

EN 50264-2-1

Single core cables rated 300/500V and 600/1000V

EN 50264-2-2

Multi-core cables rated 300/500V and 600/1000V

In addition to the primary Railguard concept, Habia Cable also manufactures cables designed and approved to comply fully with the criteria set out to the following London Underground standard for populated areas:

1-085

Multi-core cables for Section 12 applications (areas where large numbers of people are present in confined spaces such as lifts, escalators and underground platforms). Using our HFI 140 insulation with HFS 80 sheathing materials, Habia Cable is able to produce a wide variety of custom design cables.

XTU Single cores

300V
-40°C/+107°C

Single cores

Voltage	300/500V U ₀ /U
Test voltage	3000V DC
Flame retardant	
Halogen free	
Low smoke generation	
• EN 50264-2-1	

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	-	Sheath	-

Identification

Marking	Habia Cable Railguard EN 50264-2-1 VOLTAGE CSA M (e.g. Habia Cable Railguard EN 50264-2-1 300V 1,0 M)
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Application

Railguard XTU equipment (hookup) wire uses low smoke halogen free (LSZH) and fire resistant materials. Railguard XTU insulation is fully tested and approved to EN 50264-1 for rolling stock / railway applications. It is sized to comply with the 300/500V rating.

XTU cores are ingoing components only and as such do not have order references. For single wires, XU cores should be used instead.

Description	Size		Conductor			Finished Wire			Electrical amps at 40°C	Order reference
	AWG	CSA mm ²	stranding	resistance Ω/km	wire Ø	core Ø	tolerance	weight g/m		
XTU 1,0	-	1,00	32 x 0,20	20,00	1,20	2,60	±0,20	15	17	-
XTU 1,5	-	1,50	30 x 0,25	13,70	1,50	3,00	+0,30 -0,20	21	23	-
XTU 2,5	-	2,50	50 x 0,25	8,21	1,95	3,75	+0,15 -0,35	33	33	-

Available colours (replace 'cc' in the order reference)

00 Black	11 Brown	-	-	-	66 Blue	-	88 Grey	-	-	-	45 Yel/Grn
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Ref: RGuard_XTU_08 Created: CJV Approved: AE Date: 2013-09-12

Data indicates nominal values unless stated otherwise, is only valid for reference purposes at the time of publication and is subject to change without prior notice.

Single cores

Voltage	600/1000V U ₀ /U
Test voltage	3000V DC
Flame retardant	
Halogen free	
Low smoke generation	
• EN 50264-2-1	

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	-	Sheath	-

Identification (According to HD 308 S2)

Marking	Habia Cable Railguard EN 50264-2-1 VOLTAGE CSA M (e.g. Habia Cable Railguard EN 50264-2-1 300V 1,0 M)
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Application

Railguard XU equipment (hookup) wire uses low smoke halogen free (LSZH) and fire resistant materials. Railguard XU insulation is fully tested and approved to EN 50264-1 for rolling stock / railway applications. It is sized to comply with the 600/1000V rating.

Description	Size		Conductor			Finished Wire			Electrical amps at 40°C	Order reference
	AWG	CSA mm ²	stranding	resistance Ω/km	wire Ø	core Ø	tolerance	weight g/m		
XU 1,0	-	1,00	32 x 0,20	20,00	1,20	3,00	± 0,20	18	17	456cc0100
XU 1,5	-	1,50	30 x 0,25	13,70	1,50	3,30	+0,20 -0,30	23	23	456cc0150
XU 2,5	-	2,50	50 x 0,25	8,21	1,95	3,75	+0,15 -0,35	33	33	456cc0250
XU 4	-	4,00	56 x 0,30	5,09	2,48	4,28	+0,32 -0,38	49	46	456cc0400
XU 6	-	6,00	84 x 0,30	3,39	2,92	5,02	+0,38 -0,42	71	60	456cc0600
XU 10	-	10,00	80 x 0,40	1,95	3,93	6,43	+0,37 -0,63	119	90	456cc1000
XU 16	-	16,00	126 x 0,40	1,24	5,70	8,20	+0,30 -1,00	182	130	456cc1600

Available colours (replace 'cc' in the order reference)

00 Black	11 Brown	-	-	-	66 Blue	-	88 Grey	-	-	-	45 Yel/Grn
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Ref: RGuard_XU_07 Created: CJV Approved: AE Date: 2013-09-12

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XTU-TU Multi-core cables, unscreened

300V
-40°C/+107°C

Multi-core cables, unscreened

Voltage	300/500V U ₀ /U
Test voltage	3000V DC
Flame retardant	IEC 60332-1-2 IEC 60332-3-24
Halogen free	
Smoke generation	IEC 61034-2
•	EN 50264-2-2

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	Fire barrier	Sheath	HFS 110 XL

Identification (HD 308 S2)

Cores (2-3)	1: Blue	2: Brown	3: Yw / Gn	
Cores (4)	1: Brown	2: Black	3: Grey	4: Yw / Gn
Sheath	Black			

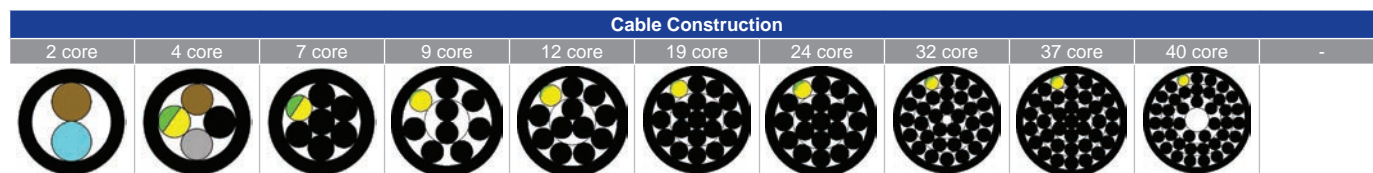
Marking	Habia Cable Railguard	EN 50264-2-2	VOLTAGE	CORES	CSA	MM	G
	(e.g. Habia Cable Railguard	EN 50264-2-2	300V	2x 1,0	MM)		

Application

Railguard XTU-TU cables meet the low smoke, halogen free (LSZH) and fire resistant demands of rolling stock and railway applications. Uses include jumper cables, metro cables and speed sensor cables.

Description	Construction							Electrical amps at 40°C max	NSN	Order reference
	no. / size CSA	conductor Ø	insulation Ø	cabled Ø	shield (s) Ø	sheath (s) Ø	weight g/m			
XTU 1,0 TU 2	2x 1,00	1,20	2,60	5,2	-	8,5	100	16,9	-	45701000020
XTU 1,0 TU 4	4x 1,00	1,20	2,60	6,3	-	9,6	130	14,2	-	457010000407
XTU 1,5 TU 4	4x 1,50	1,50	3,00	7,3	-	10,8	175	18,9	-	457015000407
XTU 2,5 TU 4	4x 2,50	1,95	3,75	9,1	-	12,5	240	26,8	-	457025000407
XTU 1,0 TU 7	7x 1,00	1,20	2,60	7,8	-	11,2	185	11,6	-	457010000707
XTU 1,5 TU 7	7x 1,50	1,50	3,00	9,0	-	12,8	250	15,3	-	457015000707
XTU 2,5 TU 7	7x 2,50	1,95	3,75	11,3	-	14,9	360	21,7	-	457025000707
XTU 1,0 TU 9	9x 1,00	1,20	2,60	10,2	-	13,4	225	10,7	-	457010000907
XTU 1,5 TU 9	9x 1,50	1,50	3,00	11,8	-	15,3	310	14,3	-	457015000907
XTU 2,5 TU 9	9x 2,50	1,95	3,75	14,7	-	18,3	455	20,0	-	457025000907
XTU 1,0 TU 12	12x 1,00	1,20	2,60	10,8	-	14,4	285	9,7	-	457010001207
XTU 1,5 TU 12	12x 1,50	1,50	3,00	13,3	-	16,4	395	13,0	-	457015001207
XTU 2,5 TU 12	12x 2,50	1,95	3,75	16,6	-	19,6	585	18,4	-	457025001207
XTU 1,0 TU 19	19x 1,00	1,20	2,60	13,0	-	16,6	400	8,5	-	457010001907
XTU 1,5 TU 19	19x 1,50	1,50	3,00	15,0	-	19,4	575	11,3	-	457015001907
XTU 2,5 TU 19	19x 2,50	1,95	3,75	18,8	-	23,1	855	16,1	-	457025001907
XTU 1,0 TU 24	24x 1,00	1,20	2,60	15,6	-	19,6	535	7,6	-	457010002407
XTU 1,5 TU 24	24x 1,50	1,50	3,00	18,0	-	22,8	765	10,1	-	457015002407
XTU 2,5 TU 24	24x 2,50	1,95	3,75	22,5	-	27,5	1155	14,4	-	457025002407
XTU 1,0 TU 32	32x 1,00	1,20	2,60	17,4	-	21,7	655	6,9	-	457010003207
XTU 1,5 TU 32	32x 1,50	1,50	3,00	20,1	-	25,2	940	9,1	-	457015003207
XTU 1,0 TU 37	37x 1,00	1,20	2,60	18,2	-	22,4	720	6,5	-	457010003707
XTU 1,5 TU 37	37x 1,50	1,50	3,00	21,0	-	26,2	1035	8,5	-	457015003707
XTU 1,0 TU 40	40x 1,00	1,20	2,60	19,0	-	23,3	750	6,4	-	457010004007

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Ref: RGuard_XTUJ_08 Created: CJV Approved: AE Date: 2013-09-12

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Multi-core cables, unscreened

Voltage	600/1000V U ₀ /U
Test voltage	3000V DC
Flame retardant	IEC 60332-1-2 IEC 60332-3-24
Halogen free	
Smoke generation	IEC 61034-2
• EN 50264-2-2	

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	Fire barrier	Sheath	HFS 100 XL

Identification (According to HD 308 S2)




Cores (2-3)	1: Blue	2: Brown	3: Yw / Gn	
Cores (4)	1: Brown	2: Black	3: Grey	4: Yw / Gn
Sheath	Black			

Marking	Habia Cable Railguard EN 50264-2-2 VOLTAGE CORES CSA MM G (e.g. Habia Cable Railguard EN 50264-2-2 600V 2x 1,5 MM)						
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Application

Railguard XU-TU cables meet the low smoke, halogen free (LSZH) and fire resistant demands of rolling stock and railway applications. Uses include jumper cables, metro cables and speed sensor cables.

Description	Construction							Electrical amps at 40°C max	NSN	Order reference
	no. / size CSA	conductor Ø	insulation Ø	cabled Ø	shield (s) Ø	sheath (s) Ø	weight g/m			
XU 1,5 TU 2	2x 1,50	1,50	3,30	6,6	-	9,9	142	22,4	-	45601500020
XU 2,5 TU 2	2x 2,50	1,95	3,75	7,5	-	10,9	177	31,8	-	45602500020
XU 4 TU 2	2x 4,00	2,48	4,28	8,6	-	11,8	229	44,3	-	45604000020
XU 6 TU 2	2x 6,00	2,92	5,02	10,0	-	13,9	301	57,9	-	45606000020
XU 10 TU 2	2x 10,00	3,93	6,43	12,9	-	16,7	481	85,9	-	45610000020
XU 16 TU 2	2x 16,00	5,70	8,20	16,4	-	19,4	628	125,0	-	45616000020
XU 1,5 TU 3	3x 1,50	1,50	3,30	7,1	-	10,5	163	20,7	-	456015000307
XU 2,5 TU 3	3x 2,50	1,95	3,75	8,1	-	11,6	208	29,4	-	456025000307
XU 4 TU 3	3x 4,00	2,48	4,28	9,2	-	12,9	273	41,1	-	456040000307
XU 6 TU 3	3x 6,00	2,92	5,02	10,8	-	14,6	364	53,6	-	456060000307
XU 10 TU 3	3x 10,00	3,93	6,43	13,9	-	17,9	601	79,5	-	456100000307
XU 16 TU 3	3x 16,00	5,70	8,20	17,7	-	20,8	793	116,0	-	456160000307
XU 1,5 TU 4	4x 1,50	1,50	3,30	8,0	-	11,3	194	18,9	-	456015000407
XU 2,5 TU 4	4x 2,50	1,95	3,75	9,1	-	12,5	250	26,8	-	456025000407
XU 4 TU 4	4x 4,00	2,48	4,28	10,4	-	14,0	331	37,3	-	456040000407
XU 6 TU 4	4x 6,00	2,92	5,02	12,1	-	16,1	445	48,8	-	456060000407
XU 10 TU 4	4x 10,00	3,93	6,43	15,5	-	19,8	741	72,3	-	456100000407
XU 16 TU 4	4x 16,00	5,70	8,20	19,8	-	22,9	983	105,0	-	456160000407

Cable Construction										
2 core	3 core	4 core	-	-	-	-	-	-	-	-
										

XTU-STU Multi-core cables, screened

300V
-40°C/+107°C

Multi-core cables, screened

Voltage	300/500V U ₀ /U
Test voltage	3000V DC
Flame retardant	IEC 60332-1-2 IEC 60332-3-24
Halogen free	
Smoke generation	IEC 61034-2
• EN 50264-2-2	

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	Braid of Tin Plated Copper (T)	Sheath	HFS 110 XL

Identification (HD 308 S2)

Cores (2-3)	1: Blue	2: Brown	3: Yw / Gn	
Cores (4)	1: Brown	2: Black	3: Grey	4: Yw / Gn
Sheath	Black			

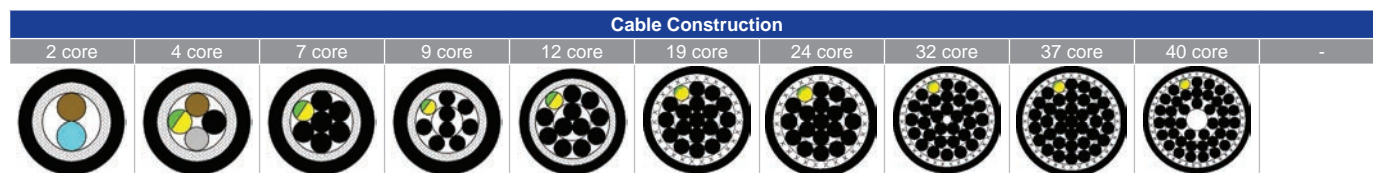
Marking	Habia Cable Railguard EN 50264-2-2 VOLTAGE CORES CSA MM SG (e.g. Habia Cable Railguard EN 50264-2-2 300V 2x 1,0 MM S)						
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Application

Railguard XTU-STU cables meet the low smoke, halogen free (LSZH) and fire resistant demands of rolling stock / railway applications. Uses include jumper cables, metro cables and speed sensor cables.

Description	Construction							Electrical amps at 40°C max	NSN	Order reference
	no. / size CSA	conductor Ø	insulation Ø	cabled Ø	shield (s) Ø	sheath (s) Ø	weight g/m			
XTU 1,0 STU 2	2x 1,00	1,20	2,60	5,2	5,9	9,5	110	16,9	-	45701001020
XTU 1,0 STU 4	4x 1,00	1,20	2,60	6,3	7,0	10,6	155	14,2	-	457010010407
XTU 1,5 STU 4	4x 1,50	1,50	3,00	7,3	8,8	11,8	195	18,9	-	457015010407
XTU 2,5 STU 4	4x 2,50	1,95	3,75	9,1	9,9	13,9	275	26,8	-	457025010407
XTU 1,0 STU 7	7x 1,00	1,20	2,60	7,8	8,6	12,2	210	11,6	-	457010010707
XTU 1,5 STU 7	7x 1,50	1,50	3,00	9,0	10,7	14,0	295	15,3	-	457015010707
XTU 2,5 STU 7	7x 2,50	1,95	3,75	11,3	12,1	16,1	400	21,7	-	457025010707
XTU 1,0 STU 9	9x 1,00	1,20	2,60	10,2	11,2	14,6	285	10,7	-	457010010907
XTU 1,5 STU 9	9x 1,50	1,50	3,00	11,8	14,2	16,5	375	14,3	-	457015010907
XTU 2,5 STU 9	9x 2,50	1,95	3,75	14,7	16,0	19,7	560	20,0	-	457025010907
XTU 1,0 STU 12	12x 1,00	1,20	2,60	10,8	11,6	15,6	330	9,7	-	457010011207
XTU 1,5 STU 12	12x 1,50	1,50	3,00	13,3	14,7	18,5	450	13,0	-	457015011207
XTU 2,5 STU 12	12x 2,50	1,95	3,75	16,6	16,6	21,1	660	18,4	-	457025011207
XTU 1,0 STU 19	19x 1,00	1,20	2,60	13,0	14,0	18,4	490	8,5	-	457010011907
XTU 1,5 STU 19	19x 1,50	1,50	3,00	15,0	17,5	20,8	660	11,3	-	457015011907
XTU 2,5 STU 19	19x 2,50	1,95	3,75	18,8	19,8	24,6	945	16,1	-	457025011907
XTU 1,0 STU 24	24x 1,00	1,20	2,60	15,6	16,6	21,2	630	7,6	-	457010012407
XTU 1,5 STU 24	24x 1,50	1,50	3,00	18,0	20,8	24,2	855	10,1	-	457015012407
XTU 2,5 STU 24	24x 2,50	1,95	3,75	22,5	23,5	28,9	1255	14,4	-	457025012407
XTU 1,0 STU 32	32x 1,00	1,20	2,60	17,4	18,4	23,1	760	6,9	-	457010013207
XTU 1,5 STU 32	32x 1,50	1,50	3,00	20,1	23,1	26,6	1050	9,1	-	457015013207
XTU 1,0 STU 37	37x 1,00	1,20	2,60	18,2	19,2	24,2	835	6,5	-	457010013707
XTU 1,5 STU 37	37x 1,50	1,50	3,00	21,0	24,1	27,6	1165	8,5	-	457015013707
XTU 1,0 STU 40	40x 1,00	1,20	2,60	19,0	20,0	25,1	910	6,4	-	457010014007

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Ref: RGuard_XTUSJ_07 Created: CJV Approved: AE Date: 2013-09-12

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Multi-core cables, screened

Voltage	600/1000V U ₀ /U
Test voltage	3000V DC
Flame retardant	IEC 60332-1-2 IEC 60332-3-24
Halogen free	
Smoke generation	IEC 61034-2
• EN 50264-2-2	

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 110 XL
Shield	Braid of Tin Plated Copper (T)	Sheath	HFS 100 XL

Identification (According to HD 308 S2)




Cores (2-3)	1: Blue	2: Brown	3: Yw / Gn	
Cores (4)	1: Brown	2: Black	3: Grey	4: Yw / Gn
Sheath	Black			

Marking	Habia Cable Railguard EN 50264-2-2 VOLTAGE CORES CSA MM G (e.g. Habia Cable Railguard EN 50264-2-2 600V 2x 1,5 MM)						
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Application

Railguard XU-STU cables meet the low smoke, halogen free (LSZH) and fire resistant demands of rolling stock / railway applications. Uses include jumper cables, metro cables and speed sensor cables.

Description	Construction							Electrical amps at 40°C max	NSN	Order reference
	no. / size CSA	conductor Ø	insulation Ø	cabled Ø	shield (s) Ø	sheath (s) Ø	weight g/m			
XU 1,5 STU 2	2x 1,50	1,50	3,30	6,6	7,3	10,9	150	22,4	-	45601501020
XU 2,5 STU 2	2x 2,50	1,95	3,75	7,5	8,3	11,9	180	31,8	-	45602501020
XU 4 STU 2	2x 4,00	2,48	4,28	8,6	9,4	13,4	240	44,3	-	45604001020
XU 6 STU 2	2x 6,00	2,92	5,02	10,1	10,9	15,1	305	57,9	-	45606001020
XU 10 STU 2	2x 10,00	3,93	6,43	12,9	13,9	18,2	465	85,9	-	45610001020
XU 16 STU 2	2x 16,00	5,70	8,20	16,4	17,4	20,9	605	125,0	-	45616001020
XU 1,5 STU 3	3x 1,50	1,50	3,30	7,1	7,9	11,4	175	20,7	-	456015010307
XU 2,5 STU 3	3x 2,50	1,95	3,75	8,1	8,9	12,5	220	29,4	-	456025010307
XU 4 STU 3	3x 4,00	2,48	4,28	9,2	10,0	14,1	295	41,1	-	456040010307
XU 6 STU 3	3x 6,00	2,92	5,02	10,8	11,6	16,0	380	53,6	-	456060010307
XU 10 STU 3	3x 10,00	3,93	6,43	13,9	14,9	19,6	620	79,5	-	456100010307
XU 16 STU 3	3x 16,00	5,70	8,20	17,7	18,7	22,3	800	116,0	-	456160010307
XU 1,5 STU 4	4x 1,50	1,50	3,30	8,0	8,7	12,3	210	18,9	-	456015010407
XU 2,5 STU 4	4x 2,50	1,95	3,75	9,1	9,8	13,9	285	26,8	-	456025010407
XU 4 STU 4	4x 4,00	2,48	4,28	10,4	11,1	15,3	360	37,3	-	456040010407
XU 6 STU 4	4x 6,00	2,92	5,02	12,1	12,9	17,4	470	48,8	-	456060010407
XU 10 STU 4	4x 10,00	3,93	6,43	15,5	16,5	21,6	785	72,3	-	456100010407
XU 16 STU 4	4x 16,00	5,70	8,20	19,8	20,8	24,6	1020	105,0	-	456160010407

Cable Construction										
2 core	3 core	4 core	-	-	-	-	-	-	-	-
										

Key properties

Voltage	600/1000V U ₀ /U
Test voltage	3000V DC
Flame retardant	
Halogen free	
Low smoke generation	
•	1-085

Construction

Conductor	Tin Plated Copper (TPC)	Insulation	HFI 140 HFI 121 XL HFI 90 XL -Data
Shield	Copper Foil (F) - Data Optional Braid of Tin Plated Copper (T) Optional Braided Armour of Stainless Steel (St)	Sheath	HFS 80

Identification

Both the colour coding and jacket marking can be specified according to the customer's request.

UK 'Section 12' populated areas

Habia Cable has tested an approved a wide range of cables to the stringent London Underground Limited Specification: 1-085: Fire safety performance of materials (which covers fire performance, smoke generation and toxicity) for use in Section 12 areas and applications (stations and tunnels).

Type approval has been awarded by the major operators for the use of Habia Cable's insulation materials: HFI 140 for small sizes and HFI 121 XL for larger sizes, in combination with the jacket material: HFS 80 between the sizes of 6,5mm to 36,7mm.

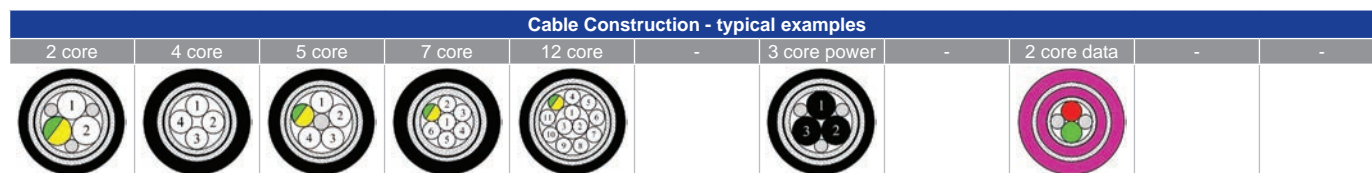
Our unique, approved materials enable Habia Cable to offer much smaller and lighter cables than are traditionally used throughout the industry whilst our specialisation in custom design cable manufacture provides the option of tailoring the construction to our customer's specific requirements; making changes and variations in core lay-up, colours, electrical and mechanical screening and insulation and sheath diameters. These modifications, though often relatively small changes such as an additional layer of screening enable Habia Cable to provide a 'perfect fit' cable design rather than our customer's having to 'make do' with an unsuitable off-the-shelf product.

Habia Cable's custom design cables can be found throughout the rail industry in the form of jumper cables, metro cables, GWK cables and speed sensor cables.

In particular, these cables have found their niche in London Underground applications such as CCTV, RTU, escalators and lifts where the benefits of small size and flexibility offer significant advantages of ease of installation.

All custom design cable enquiries will receive a customer specific, detailed engineering drawing which can then be reviewed, modified and approved by customer.

Enquiries should be directed to our local sales offices and contact details can be found on final page of this product guide.



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Data indicates nominal values unless stated otherwise, is only valid for reference purposes at the time of publication and is subject to change without prior notice.

