

**Cable Connection chart of Control Cubicle SB2 for WAP7/WAG9/WAP5 Supposed
to be Included in CLW Spec no. CLW/ES/3/0195**

35 PIN FOR WAG 9 AND 61 PIN FOR WAP 7 & 5 / 12 GRADE XK77V: 01

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	XK 77V:01-1	XB 77S-3
2	2.5	2050	XK 77V:01-2	XB 77S-2
3	2.5	2050	XK 77V:01-3	XB 77S-2
4	2.5	2050	XK 77V:01-4	XB 77S-2
5	1.5	2063	XK 77V:01-5	XK 77A:01-7
6	1.5	2064	XK 77V:01-6	XF 77S:01-1
7	1.5	2067	XK 77V:01-7	XF 77S:01-3
8	1.5	2067	XK 77V:01-7	XK 77A:01-8
9	2.5	2069	XK 77V:01-8	XF 77S:01-4
10	2.5	2094	XK 77V:01-9	XB 77S-15
11	2.5	2094	XK 77V:01-10	XB 77S-15
12	2.5	2094	XK 77V:01-11	XB 77S-15
13	2.5	2094	XK 77V:01-12	XB 77S-15
14	2.5	2095	XK 77V:01-13	127.3/2-1
15	2.5	2095	XK 77V:01-14	S:2095.2-Q1
16	2.5	2096	XK 77V:01-15	127.11/2-Q1
17	2.5	2096	XK 77V:01-16	S:2096.2-Q1
18	1.5	2300	XK 77V:01-17	XK 77A:01-10
19	1.5	2310	XK 77V:01-18	XK 77A:01-11
20	1.5	2312	XK 77V:01-19	XF 77S:01-9
21	1.5	2314	XK 77V:01-20	XF 77S:01-10
22	1.5	2319	XK 77V:01-21	XF 77S:01-12
23	2.5	2320	XK 77V:01-22	XK 77R-4
24	1.5	2325	XK 77V:01-23	XK 77R-1
25	1.5	2326	XK 77V:01-24	126.6-76
26	1.5	2327	XK 77V:01-25	XF 77S:01-13
27	1.5	2501	XK 77V:01-26	XF 77S:01-14
28	1.5	2510	XK 77V:01-27	211.1/2-Q2
29	1.5	2510	XK 77V:01-27	211.A-2+
30	1.5	2511	XK 77V:01-28	126.6-43
31	1.5	2515	XK 77V:01-29	211-14
32	1.5	2517	XK 77V:01-30	211-44
33	1.5	2808	XK 77V:01-31	XK 77B-25
34	1.5	2809	XK 77V:01-32	XK 77B-12
35	1.5	2817	XK 77V:01-33	XK 77B-22
36	1.5	2819	XK 77V:01-34	XK 77B-26
FOR WAP7 AND WAP5 ONLY				
37	2.5	2864	XK 77V:01-35	XK 77R-17
38	1.5	2331AR	XK 77V:01-36	XF 77S:03-50

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39	1.5	2050AR	XK 77V:01-37	XF 77S:03-62
40	1.5	2111AR	XK 77V:01-38	XF 77S:02-48
41	1.5	2500AR	XK 77V:01-39	XF 77S:03-48
42	1.5	2503AR	XK 77V:01-40	XF 77S:03-49
43	1.5	4242AR	XK 77V:01-41	XF 77S:02-47
44	1.5	5672AR	XK 77V:01-42	XF 77S:02-50
45	1.5	5671AR	XK 77V:01-43	XF 77S:02-49

61 PIN / 16 GRADE XK77V: 02

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2866	XK 77V:02-1	XK 77R-18
2	2.5	2867	XK 77V:02-2	XK 77R-19
3	1.5	2874	XK 77V:02-3	XK 77B-31
4	1.5	2894	XK 77V:02-4	XK 77B-21
5	1.5	3000	XK 77V:02-5	XK 77S:01-16
6	1.5	3001	XK 77V:02-6	XK 77A:01-12
7	1.5	3042	XK 77V:02-7	XK 77D-10
8	2.5	3054	XK 77V:02-8	XF 77S:01-35
9	1.5	3097	XK 77V:02-9	XK 77X-14
10	1.5	3530	XK 77V:02-10	310.7/2
11	1.5	4200	XK 77V:02-11	127.15-2
12	1.5	4201	XK 77V:02-12	XF 77S:02-7
13	1.5	4218	XK 77V:02-13	XF 77S:02-27
14	1.5	4234	XK 77V:02-14	XF 77S:02-35
15	1.5	4235	XK 77V:02-15	XF 77S:02-36
16	1.5	4236	XK 77V:02-16	XF 77S:02-37
17	1.5	4238	XK 77V:02-17	XF 77S:02-38
18	1.5	4243	XK 77V:02-18	XF 77S:02-39
19	1.5	5091	XK 77V:02-19	XK 77B-33
20	2.5	5092	XK 77V:02-20	XK 77B-23
21	1.5	5209	XK 77V:02-21	XK 77R-12
22	1.5	5210	XK 77V:02-22	XK 77R-13
23	2.5	2098A	XK 77V:02-23	XK 77B-8
24	1.5	2098B	XK 77V:02-24	XF 77S:03-4
25	1.5	2099A	XK 77V:02-25	XF 77S:03-5
26	1.5	2099B	XK 77V:02-26	XF 77S:03-6
27	2.5	2111B	XK 77V:02-27	XF 77S:03-16
28	1.5	2331B	XK 77V:02-28	XK 77A:01-22
29	1.5	2500B	XK 77V:02-29	XF 77S:03-20
30	1.5	2503A	XK 77V:02-30	XF 77S:03-21
31	1.5	2503B	XK 77V:02-31	XK 77A:01-26
32	1.5	2504A	XK 77V:02-32	126.7/2-76
33	1.5	2504B	XK 77V:02-33	126.7A/2-2+
34	1.5	2514A	XK 77V:02-34	XF 77S:03-22
35	1.5	2516A	XK 77V:02-35	XK 77Z-18
36	2.5	2816B	XK 77V:02-36	XK 77-R-20
37	2.5	2862B	XK 77V:02-37	XK 22R-21
38	2.5	2863B	XK 77V:02-38	XK 22R-22

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39	2.5	3046A	XK 77V:02-39	XK 77D-20
40	2.5	3064A	XK 77V:02-40	XK 77P:01-12
41	2.5	3065A	XK 77V:02-41	XK 77P:01-8
42	2.5	3066A	XK 77V:02-42	XK 77P:01-5
43	2.5	3067A	XK 77V:02-43	XK 77P:01-14
44	1.5	3549A	XK 77V:02-44	XF77S:01-
45	1.5	3549B	XK 77V:02-45	XF 77S:03-28
46	2.5	5108A	XK 77V:02-46	XK 77R-16
47	2.5	5108B	XK 77V:02-47	XK 77R-14

FOR WAP7 AND WAP5 ONLY

48	1.5	UH 06	XK 77V:02-48	XF 77S:02-52
49	1.5	UH 07	XK 77V:02-49	XF 77S:02-53
50	1.5	UH 08	XK 77V:02-50	XF 77S:02-54
51	1.5	UH 09	XK 77V:02-51	XF 77S:02-55
52	1.5	UH 10	XK 77V:02-52	XF 77S:02-56
53	1.5	UH 11	XK 77V:02-53	XF 77S:03-51
54	1.5	UH 12	XK 77V:02-54	XF 77S:03-52
55	1.5	2806	XK 77V:02-55	XF 77S:03-53
56	1.5	2860	XK 77V:02-56	XF 77S:03-54
57	1.5	HL 01	XK 77V:02-57	XF 77S:01-53
58	1.5	HL 02	XK 77V:02-58	XF 77S:01-54

35 PIN / 12 GRADE XK77D

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	XK 77D-1	XB 77S-10
2	1.5	2050	XK 77D-2	XB 77S-5
3	1.5	2050	XK 77D-3	XB 77S-5
4	1.5	2050	XK 77D-4	128.1/2-2
5	1.5	2050	XK 77D-5	XB 77S-4
6	1.5	2050	XK 77D-6	XB 77S-4
7	1.5	3027	XK 77D-7	XF 77S:01-20
8	1.5	3036	XK 77D-8	XF 77S:01-23
9	1.5	3038	XK 77D-9	XF 77S:01-24
10	1.5	3042	XK 77D-10	XF 77V:02-7
11	1.5	3044	XK 77D-11	XF 77S:01-28
12	1.5	3052	XK 77D-12	XF 77S:01-33
13	1.5	3053	XK 77D-13	XF 77S:01-34
14	2.5	3101	XK 77D-14	XF 77D-15
15	2.5	3101	XK 77D-14	XF 77S:01-40
16	2.5	3101	XK 77D-15	XK 77D-16
17	2.5	3101	XK 77D-15	XK 77D-14
18	2.5	3101	XK 77D-16	XK 77D-15
19	2.5	3101	XK 77D-17	XK 77D-18
20	2.5	3101	XK 77D-17	XF 77S:01-40
22	2.5	3101	XK 77D-18	XK 77D-17
23	2.5	3101	XK 77D-19	128.1/2-2

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24	1.5	3046B	XK 77D-21	XF 77S:01-1/10
25	1.5	3046A	XK 77D-20	XF 77V:02-39
<u>FOR WAP7 AND WAP5 ONLY</u>				
26	1.5	3035A	XK 77D-35	XF 77S:01-49

35 PIN / 12 GRADE XK77B

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2876	XK 77B-1	XK 77V:03-12
2	1.5	2880A	XK 77B-3	XK 77H-33
3	1.5	2880B	XK 77B-4	XK 77H-34
4	2.5	2050	XK 77B-5	XB 77S-6
5	2.5	5093	XK 77B-6	XK 77B-11
6	1.5	5093	XK 77B-6	127.22/3-2
7	2.5	2050	XK 77B-7	XB 77S-6
8	2.5	2050	XK 77B-9	XB 77S-6
9	2.5	2098B	XK 77B-10	XF 77S:03-3
10	2.5	5093	XK 77B-11	XK 77B-6
11	1.5	5094	XK 77B-16	XF 77S:02-43
12	2.5	5092	XK 77B-23	XK 77B-29
13	2.5	5092	XK 77B-23	XK 77V:02-20
14	2.5	2050	XK 77B-24	XB 77S-6
15	2.5	5092	XK 77B-29	XK 77B-23
16	1.5	5092	XK 77B-29	127.22/2-2
17	1.5	2050	XK 77B-32	XB 77S-5
18	2.5	2098B	XK 77B-8	XK 77V:02-23
19	1.5	2809	XK 77B-12	XK 77V:01-32
20	1.5	2894	XK 77B-21	XK 77V:02-4
21	1.5	2817	XK 77B-22	XK 77V:01-33
22	1.5	2808	XK 77B-25	XK 77V:01-31
23	1.5	2819	XK 77B-26	XK 77V:01-34
24	1.5	2874	XK 77B-31	XK 77V:02-3
25	1.5	5091	XK 77B-33	XK 77V:02-19

35 PIN / 12 GRADE XK77H

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	XK 77H-1	XB 77S-4
2	1.5	2858	XK 77H-2	XF 77S:01-15
3	1.5	2801B	XK 77H-3	127.2/2-2
4	1.5	2850B	XK 77H-4	XF 77S:01-1/1
5	0.5	2851B	XK 77H-5	XF 77S:01-1/2
6	0.5	2852B	XK 77H-6	XF 77S:01-1/3
7	0.5	2853B	XK 77H-7	XF 77S:01-1/4
8	0.5	2855B	XK 77H-8	XF 77S:01-1/5
9	0.5	2856B	XK 77H-9	XF 77S:01-1/6

10	0.5	2857B	XK 77H-10	XF 77S:01-1/7
11	1.5	3037B	XK 77H-11	XF 77S:03-27
12	0.5	2840B	XK 77H-26	XF 77S:01-1/8
13	1.5	2890	XK 77H-27	XF 77V:03-11
14	0.5	2897	XK 77H-28	XF 77S:01-1/9
15	1.5	5094	XK 77H-29	XF 77S:02-42
16	1.5	5094	XK 77H-30	XF 77S:02-42
17	1.5	2877A	XK 77H-31	XF 77V:03-14
18	1.5	2877B	XK 77H-32	XF 77V:03-13
19	1.5	5092	XK 77H-14	127.22/2-2
20	1.5	5093	XK 77H-15	127.22/3-2
21	1.5	2880A	XK77H-33	XK77B-3
22	1.5	2880B	XK77H-33	XK77B-4

35 PIN / 12 GRADE XK77R

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2325	XK 77R-1	XK77V:01-23
2	2.5	2098B	XK 77R-2	XK77S:03-3
3	2.5	2340	XK 77R-3	XK77R-5
4	2.5	2320	XK 77R-4	XK77V:01-22
5	1.5	2320	XK 77R-4	126.6-13
6	2.5	2340	XK 77R-5	XK77R-3
7	2.5	2340	XK 77R-5	XK77V:03-6
8	2.5	2601B	XK 77R-6	XK77R-7
9	2.5	2601B	XK 77R-6	127.11/2-2
10	2.5	2601B	XK 77R-7	XK77R-6
11	2.5	2050	XK 77R-8	XB77S-3
12	2.5	2050	XK 77R-9	XB77S-3
13	2.5	5101B	XK 77R-10	XK77V:03-9
14	2.5	5101B	XK 77R-10	127.1/2-2
15	2.5	2050	XK 77R-11	XB77S-3
16	2.5	5101A	XK 77R-15	XK77V:03-10
17	1.5	5209	XK 77R-12	XK77V:02-21
18	1.5	5210	XK 77R-13	XK77V:02-22
19	2.5	5108B	XK 77R-14	XK77V:02-47
20	2.5	5108A	XK 77R-16	XK77V:02-46
21	2.5	2864	XK 77R-17	XK77V:01-35
22	2.5	2866	XK 77R-18	XK77V:02-1
23	2.5	2867	XK 77R-19	XK77V:02-2
24	2.5	2861B	XK 77R-20	XK77V:02-36
25	2.5	2862B	XK 77R-21	XK77V:02-37
26	2.5	2863B	XK 77R-22	XK77V:02-38

35 PIN / 12 GRADE XK77A:01

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4203	XK77A:01-1	XF77S:02-8

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2	1.5	2309B	XK77A:01-2	XF77S:03-18
3	1.5	2064	XK77A:01-3	XF77S:01-1
4	1.5	3000	XK77A:01-4	XF77S:01-16
5	2.5	2050	XK77A:01-5	XB77S-7
6	2.5	2050	XK77A:01-6	XB77S-7
7	1.5	2067	XK77A:01-8	XF77S:01-3
8	1.5	2067	XK77A:01-8	XK77V:01-5
9	1.5	2069	XK77A:01-9	XF77S:01-4
10	1.5	2300	XK77A:01-10	XK77V:01-17
11	2.5	3054	XK77A:01-13	XF77S:01-35
12	1.5	3530	XK77A:01-14	310.7-2
13	1.5	4218	XK77A:01-15	XF77S:02-27
14	1.5	4234	XK77A:01-16	XF77S:02-35
15	1.5	4235	XK77A:01-17	XF77S:02-36
16	1.5	2097B	XK77A:01-18	XF77S:03-1
17	1.5	2097B	XK77A:01-18	126.7/2-53
18	1.5	2099B	XK77A:01-19	XF77S:03-6
19	2.5	2111B	XK77A:01-20	XF77S:03-17
20	2.5	2111B	XK77A:01-20	126.7/2-2
21	1.5	2313B	XK77A:01-21	XF77S:03-19
22	1.5	2331B	XK77A:01-22	XF77V:02-28
23	1.5	2331B	XK77A:01-22	XF77S:03-45
24	1.5	2333	XK77A:01-23	XF77S:02-45
25	1.5	2334	XK77A:01-24	XF77S:02-46
26	1.5	2500	XK77A:01-25	XF77S:03-20
27	1.5	2503	XK77A:01-26	XK77V:02-31
28	1.5	2514B	XK77A:01-27	XF77S:03-23
29	1.5	2516B	XK77A:01-28	XF77Z-19
30	1.5	2520B	XK77A:01-29	XF77S:02-1/1
31	1.5	2521B	XK77A:01-30	XF77S:02-1/2
32	1.5	2522B	XK77A:01-31	XF77S:02-1/3
33	1.5	2523B	XK77A:01-32	XF77S:02-1/4
34	1.5	2524B	XK77A:01-33	XF77S:02-1/5
35	1.5	2525B	XK77A:01-34	XF77S:02-1/6
36	1.5	2526B	XK77A:01-35	XF77S:02-1/7
37	1.5	2063	XK77A:01-7	XK77V:01-5
38	1.5	2310	XK77A:01-11	XK77V:01-18
39	1.5	3001	XK77A:01-12	XK77V:02-6

61 PIN / 16 GRADE XK77A:02

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2527 B	XK77A:02-1	XF77S:02-1/8
2	1.5	2532 B	XK77A:02-2	XF77S:02-1/9
3	1.5	2540 B	XK77A:02-3	XF77S:02-1/10
4	1.5	2541 B	XK77A:02-4	XF77S:02-1/11
5	1.5	2541 B	XK77A:02-5	XF77S:02-1/12
6	1.5	2803 B	XK77A:02-6	XF77S:03-1/1

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7	1.5	2804 B	XK77A:02-7	XF77S:03-1/2
8	1.5	2807 B	XK77A:02-8	XF77S:03-1/3
9	1.5	3005 B	XK77A:02-9	XF77S:03-24
10	1.5	3020 B	XK77A:02-10	XF77S:03-25
11	1.5	3033 B	XK77A:02-11	XF77S:03-1/4
12	1.5	3034 B	XK77A:02-12	XF77S:03-26
13	1.5	3035 B	XK77A:02-13	XF77S:03-1/5
14	1.5	3060 B	XK77A:02-14	XF77S:03-1/6
15	2.5	3064 B	XK77A:02-15	XK77P:01-13
16	2.5	3065 B	XK77A:02-16	XK77P:01-9
17	2.5	3066 B	XK77A:02-17	XK77P:01-6
18	2.5	3067 B	XK77A:02-18	XK77P:01-15
19	1.5	3069 B	XK77A:02-19	XF77S:03-1/7
20	1.5	3071 B	XK77A:02-20	XF77S:03-1/8
21	1.5	3117 B	XK77A:02-26	XF77S:03-1/9
22	1.5	3501 B	XK77A:02-27	XF77S:03-39
23	1.5	3542 B	XK77A:02-28	XF77S:03-36
24	1.5	3544 B	XK77A:02-29	XF77S:01-45
25	2.5	3549 B	XK77A:02-30	XF77S:03-43
26	1.5	3554 B	XK77A:02-31	XF77S:03-29
27	1.5	4211 B	XK77A:02-32	XF77S:03-30
28	1.5	4232 B	XK77A:02-33	XF77S:03-31
29	1.5	4237 B	XK77A:02-34	XF77S:03-32
30	1.5	4242 B	XK77A:02-35	XF77S:03-34
31	1.5	5671 B	XK77A:02-36	XF77S:03-1/10
32	1.5	5672 B	XK77A:02-37	XF77S:03-1/11
33	1.5	5673 B	XK77A:02-38	XF77S:03-1/12
34	1.5	3542 B	XK77A:02-61	XF77S:03-40

FOR WAP7 AND WAP5 ONLY

35	1.5	2500 AR	XK77A:02-39	XF77S:03-48
36	1.5	2503 AR	XK77A:02-40	XF77S:03-49
37	1.5	2331 AR	XK77A:02-41	XF77S:03-50
38	1.5	4242 AR	XK77A:02-42	XF77S:02-47
39	1.5	2111 AR	XK77A:02-43	XF77S:02-48
40	1.5	5671 AR	XK77A:02-44	XF77S:02-49
41	1.5	5672 AR	XK77A:02-45	XF77S:02-50
42	1.5	2050 AR	XK77A:02-50	XF77S:03-62

61 PIN / 16 GRADE XK77P:01

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2111 A	XK77P:01-1	XF77S:03-16
2	2.5	2111 B	XK77P:01-2	XF77S:03-17
3	1.5	3047	XK77P:01-3	XF77S:01-29
4	1.5	3048	XK77P:01-4	XF77S:01-30
5	1.5	2050	XK77P:01-7	XB77S-4
6	1.5	3056	XK77P:01-10	XF77S:01-37

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7	1.5	3016	XK77P:01-11	XF77S:01-18
8	1.5	4240	XK77P:01-16	XF77X-28
9	1.5	3055	XK77P:01-17	XF77S:01-36
10	1.5	3039	XK77P:01-18	XF77S:01-25
11	1.5	4224	XK77P:01-19	XF77S:02-29
12	1.5	3069	XK77P:01-20	XF77S:01-38
13	1.5	3050	XK77P:01-21	XF77S:01-31
14	1.5	3043	XK77P:01-22	XF77S:01-27
15	1.5	2307	XK77P:01-23	XF77S:01-7
16	1.5	2308	XK77P:01-24	XF77S:01-8
17	1.5	3041	XK77P:01-26	XF77S:01-26
18	1.5	2105B	XK77P:01-27	XF77S:03-15
19	1.5	2105A	XK77P:01-28	XF77S:03-14
20	1.5	3028	XK77P:01-29	XF77S:01-21
21	1.5	3029	XK77P:01-30	XF77S:01-22
22	1.5	2069	XK77P:01-31	XF77S:01-4
23	1.5	3026	XK77P:01-32	XF77S:01-19
24	1.5	3008	XK77P:01-33	XF77S:01-17
25	1.5	3101	XK77P:01-34	XF77S:01-40
26	1.5	3050	XK77P:01-35	XF77S:01-32
27	1.5	3070	XK77P:01-37	XF77S:01-39
28	2.5	3066 A	XK77P:01-05	XK77V:02-42
29	2.5	3065 A	XK77P:01-08	XK77V:02-41
30	2.5	3064 A	XK77P:01-12	XK77V:02-40
31	2.5	3067 A	XK77P:01-14	XK77V:02-43
32	2.5	3066B	XK77P:01-6	XK77A:02-17
33	2.5	3065B	XK77P:01-9	XK77A:02-16
34	2.5	3064B	XK77P:01-13	XK77A:02-15
35	2.5	3067B	XK77P:01-15	XK77A:02-18

4 PIN XK77C:01

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	35	2092	XK77C:01-01	110-01
2	35	2052	XK77C:01-02	XH77S-1
3	35	2050	XK77C:01-03	XH77S-2

4 PIN XK77C:02

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	16	2021	XK77C:02-1	110-02
2	16	2052	XK77C:02-2	XH77S-1

61 PIN / 16 GRADE XK77X

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2050	XK77X-3	XB77S-2

2	1.5	4206	XK77X-4	XF77S:02-20
3	1.5	2050	XK77X-10	XB77S-1
4	1.5	2050	XK77X-11	XB77S-1
5	1.5	2050	XK77X-12	XB77S-1
6	1.5	3055	XK77X-13	XF77S:01-36
7	1.5	4206	XK77X-15	XF77S:02-20
8	1.5	4206	XK77X-16	XF77S:02-20
9	1.5	4206	XK77X-17	XF77S:02-21
10	1.5	4206	XK77X-18	XF77S:02-21
11	1.5	4206	XK77X-19	XF77S:02-22
12	1.5	4207	XK77X-20	XF77S:02-23
13	1.5	4208	XK77X-21	XF77S:02-24
14	1.5	4209	XK77X-22	XF77S:02-25
15	1.5	4210	XK77X-23	XF77S:02-26
16	1.5	4236	XK77X-27	XF77S:02-37
17	1.5	4244	XK77X-29	XF77S:02-40
18	1.5	3097	XK77X-14	XK77V:02-9
19	1.5	4240	XK77X-28	XK77P:01-16

22 PIN / 12 GRADE XK77Z

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	XK77Z-1	XB77S-1
2	2.5	3000	XK77Z-3	XF77S:01-16
3	1.5	4218	XK77Z-4	XF77S:02-27
4	2.5	4220	XK77Z-5	XF77S:02-28
5	2.5	4224	XK77Z-6	XF77S:02-29
6	1.5	4224	XK77Z-7	XF77S:02-30
7	1.5	4226	XK77Z-9	XF77S:01-1/11
8	1.5	4233	XK77Z-10	XF77S:02-34
9	1.5	4234	XK77Z-11	XF77S:02-35
10	1.5	4236	XK77Z-14	XF77S:02-37
11	1.5	2097B	XK77Z-17	XF77S:03-1
12	1.5	2516	XK77Z-18	XK77V:02-35
13	1.5	2516B	XK77Z-19	XK77A:01-28

22P/12 GRADE XK77HL (ONLY FOR WAP 7 & 5)

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
	1.5	UH 01	XK77HL:02-1	XF77S:01-48
2	1.5	UH 02	XK77HL:02-2	XF77S:01-49
3	1.5	UH 03	XK77HL:02-3	XF77S:01-50
4	1.5	UH 04	XK77HL:02-4	XF77S:01-51
5	1.5	UH 05	XK77HL:02-5	XF77S:01-52
6	1.5	UH 06	XK77HL:02-6	XF77S:02-52
7	1.5	UH 07	XK77HL:02-7	XF77S:02-53
8	1.5	UH 08	XK77HL:02-8	XF77S:02-54
9	1.5	UH 09	XK77HL:02-9	XF77S:02-55

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10	1.5	UH 10	XK77HL:02-10	XF77S:02-56
11	1.5	UH 11	XK77HL:02-11	XF77S:03-51
12	1.5	UH 12	XK77HL:02-12	XF77S:03-52
13	1.5	UH 13	XK77HL:02-13	XF77S:03-56

22 PIN / 12 GRADE XK77V:03

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2328	XK77V:03-7	126.6-61
2	1.5	2329	XK77V:03-8	126.6-62
3	2.5	5094	XK77V:03-15	XF77S:02-42
4	2.5	3542C	XK77V:03-16	XF77S:03-41
5	2.5	3542D	XK77V:03-17	XF77S:03-42
6	2.5	2340	XK77V:03-6	XK77R-5
7	2.5	5101B	XK77V:03-9	XK77R-10
8	2.5	5101A	XK77V:03-10	XK77R-15
9	1.5	2890	XK77V:03-11	XK77H-27
10	1.5	2876	XK77V:03-12	XK77B-1
11	1.5	2877B	XK77V:03-13	XK77H-32
12	1.5	2877A	XK77V:03-14	XK77H-31
13	1.5	3034 B	XK77V:03-18	XF77S:03-26
14	1.5	3035 B	XK77V:03-19	XF77S:03-1/5
15	1.5	3008	XK77V:03-20	XF77S:01-17
16	1.5	5671 B	XK77V:03-21	XF77S:03-1/10
<u>FOR WAP7 AND WAP5 ONLY</u>				
17	1.5	UH 01	XK77V:03-01	XF77S:01-48
18	1.5	UH 02	XK77V:03-02	XF77S:01-49
19	1.5	UH 03	XK77V:03-03	XF77S:01-50
20	1.5	UH 04	XK77V:03-04	XF77S:01-51
21	1.5	UH 05	XK77V:03-05	XF77S:01-52
22	1.5	3035	XK77V:03-22	XF77S:01-49

LINK CABLE FOR MODIFICATION TO DRIVE MR BLOWER AND SCAVENGE BLOWER BY THREE PHASE SUPPLY

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2897 + 2890	XK22V-11:03	XF77S:01-19

LINK CABLES

127.81 CB for Commissioning -1

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2094	127.81-1	XB77S-16
2	1.5	2067	127.81-2	XF77S:01-3

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127.15 (6A) CB for Vigilance Control

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4200	127.15-2	XK77V:02-11
2	0	2095	127.15-1	S2095.2-Q2

127.7 (6A) CB for Pneumatic Panel

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	3101	127.7-2	XF77S:01-41
2	0	2095	127.7-1	S2095.2-Q2

127.82 (6A) for Commissioning-2

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2069	127.82-2	XF77S:01-5
2	1.5	2069	127.82-2	211.1/2-Q1
3	0	2095	127.82-1	S2095.2-Q2

127.91 / 2 (6A) CB for 24V/48V Power Supply

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2005 B	127.91/2-2	118.4/2-VI+
2	2.5	2005 B	127.91/2-2	118.5/2-VI+
3	0	2095	127.91/2-1	S2095.2-Q2

310.7 (6A) CB for Marker Light

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	3530	310.7-2	XK77A:01-14
2	1.5	3530	310.7-2	XK77V:02-10
3	2.5	2021	310.7-1	112.1-1

310.1/2 (6A) CB for Lighting Front

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2101C	310.1/2-2	126.7/2-3
2	2.5	2094	310.1/2-1	XB77S-15

127.1/2 (6A) CB for Traction Converter

Sl.	Cable Cross	Cable no.	Connection From	Connection To
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No.	Section			
1	2.5	5101B	127.1/2-2	XK77R-10
2	0	2096	127.1/2-1	S2096.2-Q2

127.2/2 (6A) CB for Monitoring

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2801B	127.2/2-2	XK77H-3
2	0	2096	127.2/2-1	S2096.2-Q2

127.22/2 (10A) CB for Aux. Converter -2

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	5092	127.22/2-2	XK77B-29
2	1.5	5092	127.22/2-2	XK77H-14
3	0	2096	127.22/2-1	S2096.2-Q2

127.22/3 (10A) CB for Aux. Converter -3

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	5093	127.22/3-2	XK77B-6
2	1.5	5093	127.22/3-2	XK77H-15
3	0	2096	127.23/2-1	S2096.2-Q2

127.9/3 (6A) CB for Central Electronics

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4203	127.9/3-2	XF77S:02-10
2	1.5	4203	127.9/3-2	XF77S:02-11
3	0	2096	127.9/3-1	S2096.2-Q2

127.9/4 (6A) CB for Central Electronics

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4204	127.9/4-2	XF77S:02-15
2	1.5	4204	127.9/4-2	XF77S:02-15
3	0	2096	127.9/4-1	S2096.2-Q2

127.92 (6A) CB for Memotel

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4206	127.92-2	XF77S:02-22
3	0	2096	127.92-1	S2096.2-Q2

127.24 (6A) CB for Aux. Contactor

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	5094	127.24-2	XF77S:02-43
2	0	2096	127.24-1	S2096.2-Q2

128.1/2 (3A) CB for Aux. Dryer

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2050	128.1/2-1	XB77S-5
2	2.5	2095	128.1/2-1+	S2095-2Q1
3	2.5	3101	128.1/2-4+	XK77D-19
4	1.5	2050	128.1/2-2-	XK77D-4

48.1 (16A) CB for Aux. Compressor

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2068	48.1-2	48.2-1+
2	2.5	2094	48.1-1	XH77S-16

127.3/2 (10A) CB for Driver Cab

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2101 B	127.3/2-2	126.7/2-1
2	0	2095	127.3/2-1	S2095.2.Q2

310.4 (16A) CB for Machine Room Lighting

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2121	310.4-1	127.3/2-1
2	2.5	3054 A	310.4-2	XF77S:01-35

127.11/2 (20A) CB for Power Supply Gate Unit

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2601 B	127.11/2-2	XK77R-6
2	2.5	2096	127.11/2-1	S2096.2-Q2

129.1/2 (10A) CB for Hotel Load (Only for WAP 7 & 5)

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	UH11	129.1/2-2	XF77S:03-51
2	1.5	2096	129.1/2-1	127.1/2-1

110 CB for Battery Charger

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	35	2092	110-1	XK77C:01-1
2	16	2021	110-2	XK77C:02-1
3	16	2021	110-2	112.1-1

XH77S Terminal Block

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	35	2052	XH77S-1	XK77C:01-2
2	35	2050	XH77S-2	XK77C:01-3
3	16	2052	XH77S-1	XK77C:02-2

112.1 Circuit Breaker Control Circuit

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	16	2094	112.1-2	XB77S-16
2	16	2021	112.1-1	110-2
3	2.5	2021	112.1-1	310.7-1

212.A Fire Detection Unit

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	0	212.A	MASSE-M

130.1 Aux. Contactor VCB/Pantograph

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2064	130.1-1	XF77S:01-2
2	1.5	2302	130.1-2	XF77S:01-6
3	1.5	2111 A	130.1-3	XF77S:03-16
4	1.5	2111 B	130.1-5	XF77S:03-17
5	1.5	2327	130.1-13	XF77S:01-13
6	1.5	2313 B	130.1-14	XF77S:03-19
7	1.5	2103 A	130.1-4	126.6-21
8	1.5	2103 B	130.1-6	126.6-31
9	1.5	2301	130.1-A1	130.1A-1+
10	1.5	2050	130.1-A2	130.1A-4-

211 Relay Temp. Control Electronics

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2515	211-14	XK77V:01-29

2	1.5	2099 A	211-21	XF77S:03-5
3	1.5	2514	211-22	XF77S:03-22
4	1.5	2099 B	211-31	XF77S:03-7
5	1.5	2514 B	211-32	XF77S:03-23
6	1.5	2069	211-43	XF77S:01-5
7	1.5	2517	211-44	XK77V:01-30
8	1.5	2510	211-A1	211.A-1+
9	1.5	2050	211-A2	211.A-4-
10	1.5	2512	211-13	126.6-44

126.6 Safety Relay Control Electronics

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2501	126.6-A1	XF77S:01-14
2	1.5	2050	126.6-A2	XB77S-11
3	1.5	2320	126.6-13	XK77R-4
4	1.5	2314	126.6-14	XF77S:01-10
5	1.5	2104 A	126.6-22	XF77S:03-12
6	1.5	2104 B	126.6-32	XF77S:03-13
7	1.5	2511	126.6-43	XK77V:01-28
8	1.5	2328	126.6-61	XK77V:03-7
9	1.5	2329	126.6-62	XK77V:03-8
10	1.5	2312	126.6-75	XF77S:01-9
11	1.5	2326	126.6-76	XK77V:01-24
12	1.5	4201	126.6-87	XF77S:02-7
13	1.5	4243	126.6-88	XF77S:02-39
14	1.5	2050	126.6-A2	126.7A/2-3-
15	1.5	2103 A	126.6-21	130.1-4
16	1.5	2103 B	126.6-31	130.1-6
17	1.5	2512	126.6-44	211-13

126.7/2 Contactor for Power Supply to Cab and its Accessories

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2111 B	126.7/2-2	XK77A:01-20
2	1.5	2097 B	126.7/2-53	XK77A:01-18
3	1.5	2099 B	126.7/2-54	XF77S:03-6
4	1.5	2503 A	126.7/2-75	XF77S:03-21
5	1.5	2504 A	126.7/2-76	XK77V:02-32
6	1.5	2101 B	126.7/2-1	127.3/2-2
7	1.5	2504 B	126.7/2-A1	126.7A/2-1+
8	1.5	2050	126.7/2-A2	126.7A/2-4-
9	1.5	2101 C	126.7/2-3	310.1/2-2
10	1.5	3501 B	126.7/2-4	XF77S:03-39

130.1A SNUBBER

Sl.	Cable Cross	Cable no.	Connection From	Connection To
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No.	Section			
1	1.5	2301	130.1A-1	130.1-A1
2	0.5	2301	130.1A-2	412.JJ-9
3	1.5	2050	130.1A-3	XB77S-11
4	1.5	2050	130.1A-4	130.1-A2

211 A SNUBBER

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2510	211 A -1	211 – A1
2	1.5	2510	211 A -2	XK77V:01-27
3	1.5	2050	211 A -3	XB77S-8
4	1.5	2050	211 A -4	211 – A2

126.7A/2 SNUBBER

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2504 B	126.7A/2 – 1	XK77V:02 - 33
2	1.5	2504 B	126.7A/2 – 2	126.7/2 – A1
3	1.5	2050	126.7A/2 – 3	126.6 – A2
4	1.5	2050	126.7A/2 – 4	126.7/2 – A2

48.2 Contactor for Aux. Compressor Type-6

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2068	48.2 – 1	48.1 - 2
2	1.5	3027	48.2 – 2	XF77S:01 - 20
3	1.5	3026	48.2 – A1	XF77S:01 – 19
4	1.5	2050	48.2 – A2	XB77S – 9

338/2 Contactor Head Light Type-6

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	3542 D	338/2 – 1	XF77S:03 – 42
2	2.5	3549 D	338/2 – 2	XF77S:03 – 43
3	1.5	3549 B	338/2 – A1	XF77S:03 – 28
4	1.5	2050	338/2 – A2	XB77S – 8

118.4/2 DC-DC Converter

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	118.4/2 – G1	XB77S – 10
2	2.5	2050	118.4/2 – G0	XB77S – 10
3	2.5	2098 B	118.4/2 – V0	XF77S:03 – 4
4	2.5	2098 B	118.4/2 – VI	127.91/2 - 2

118.5/2 DC-DC Converter

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	2050	118.5/2 – GI	XB77S – 10
2	2.5	2050	118.5/2 – G0	XB77S – 11
3	2.5	2097 B	118.5/2 – V0	XF77S:03 – 1
4	2.5	2005 B	118.5/2 – VI	127.91/2 – 2

211.1/2 Temperature Sensor

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2510	211.1/2 – Q2	XK77V:01 - 27
2	1.5	2069	211.1/2 – Q1	127.82 – 2

SB2 VCU RESET MODIFICATIONS (RDSO MS 475)

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2069A	XK77V:03-1	130.1-21
2	1.5	2069B	XK77V:03-2	130.1-22
3	1.5	3048	XK77V:03-3	XF77S:01-30

123/2 Blocking Diodes

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2104 A	123/2 – 1	XF77S:03 - 12
2	1.5	2105 A	123/2 – 2	XF77S:03 – 14
3	1.5	2104 B	123/2 – 3	XF77S:03 – 13
4	1.5	2105 B	123/2 – 4	XF77S:03 - 15
5	1.5	2111 B	123/2 – 5	XF77S:03 - 17
6	1.5	4211 B	123/2 – 6	XF77S:03 - 30
7	1.5	3543 B	123/2 – 7	XF77S: 03- 36
8	1.5	3549 B	123/2 – 8	XK77S:03 - 28
9	1.5	3544 B	123/2 – 9	XF77S :01- 45
10	1.5	3549 A	123/2 – 10	XF77S :01- 46

123/4 Blocking Diodes

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	4233	123/4 – 1	XF77S:02 - 34
2	1.5	4235	123/4 – 2	XF77S:02 – 36
3	1.5	2333 B	123/4 – 3	XF77S:02 – 45
4	1.5	2319	123/4 – 4	XF77S:01 – 12
5	1.5	2334 B	123/4 – 5	XF77S:02 – 46

6	1.5	2327	123/4 – 6	XF77S:01 – 13
7	1.5	4239	123/4 – 7	XF77S:03 – 33
8	1.5	4232 B	123/4 – 8	XF77S:03 – 31
9	1.5	4238	123/4 – 9	XF77S:02 – 38
10	1.5	4232 B	123/4 – 10	XF77S:03 - 31

123/6 Blocking Diodes

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	3110	123/6 – 1	XF77S:02 - 1
2	1.5	3039	123/6 – 2	XF77S:01 – 25
3	1.5	3111	123/6 – 3	XF77S:02 – 2
4	1.5	3039	123/6 – 4	XF77S:01 – 25
5	1.5	3112	123/6 – 5	XF77S:02 – 3
6	1.5	3041	123/6 – 6	XF77S:01 – 26
7	1.5	3113	123/6 – 7	XF77S:02 – 4
8	1.5	3040	123/6 – 8	XF77S:01 - 26

123/8 Blocking Diodes

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	3116	123/8 – 1	XF77S:02 - 5
2	1.5	3037 B	123/8 – 2	XF77S:03 – 27
3	1.5	3118	123/8 – 3	XF77S:02 – 6
4	1.5	3037 B	123/8 – 4	XF77S:03 – 27
5	1.5	2302	123/8 – 5	XF77S:01 – 6
6	1.5	2319	123/8 – 6	XF77S:01 - 12

123.1/2 Blocking Diodes Illumination Test

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	2331 B	123.1/2 – 1	XF77S:03 – 45
2	1.5	2514 B	123.1/2 – 2	XF77S:03 – 23
3	1.5	4235	123.1/2 – 3	XF77S:02 – 36
4	1.5	3554 B	123.1/2 – 4	XF77S:03 – 29
5	1.5	3503 B	123.1/2 – 14	XF77S:03 – 46

123/9 Blocking Diodes

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	1.5	3542 B	123/9 – 7	XF77S:03 - 40
2	1.5	3542 C	123/9 – 8	XF77S:03 – 41
3	1.5	3542 B	123/9 – 9	XF77S:03 - 40
4	1.5	3542 D	123/9 – 10	XF77S:03 - 42

412 M

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Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	0	412 – M	MASSE – M
2	2.5	0	412 – M	MASSE – M

0 MASSE - M

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	0	MASSE – M	212 - M
2	2.5	0	MASSE – M	412 - M
3	2.5	0	MASSE – M	412 - M

212A (25 PIN)

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2097 B	212.A-1	XF77S:03 – 2
2	0.5	2050	212.A-2	XB77S – 8
3	0.5	4228	212.A-4	XF77S:02 – 32
4	0.5	4203	212.A-5	XF77S:02 – 11
5	0.5	4227	212.A-7	XF77S:02 – 31
6	0.5	4204	212.A-8	XF77S:02 – 16
7	0.5	4229	212.A-10	XF77S:02 – 33
8	0.5	2097 B	212.A-14	XF77S:03 – 2
9	0.5	2050	212.A-15	XB77S – 8
10	0.5	4238	212.A-18	XF77S:02 – 38
11	0.5	4246	212.A-19	XF77S:02 – 41
12	0.5	2097 B	212.A-21	XF77S:03 – 2
13	0.5	4246	212.A-22	XF77S:02 – 41
14	0.5	4203	212.A-23	XF77S:02 – 12

***412.AJ SUB D 17 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	4203	412.AJ-A1	XF77S:02–12
2	2.5	2050	412.AJ-A2	XB77S –12

***412.CJ SUB D 17 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	2.5	4204	412.CJ-A1	XF77S:02–16
2	2.5	2050	412.CJ-A2	XB77S –12

***412.JA SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2520B	412.JA-1	XF77S:02 –1/1
2	0.5	2521B	412.JA-2	XF77S:02 –1/2
3	0.5	2500B	412.JA-3	XF77S:03 – 20
4	0.5	2541B	412.JA-4	XF77S:02 – 1/11
5	0.5	2050	412.JA-8	XB77S-9
6	0.5	3060B	412.JA-9	XF77S:01 –1/6
7	0.5	2803B	412.JA-10	XF77S:03 –1/1
8	0.5	4242B	412.JA-11	XF77S:03 –34
9	0.5	2804B	412.JA-12	XF77S:03 –1/2
10	0.5	4203B	412.JA-15	XF77S:02 –8

***412.JD SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	3117B	412.JD-1	XF77S:03 –1/9
2	0.5	2526B	412.JD-2	XF77S:02 –1/7
3	0.5	4208	412.JD-3	XF77S:02 –24
4	0.5	2523B	412.JD-4	XF77S:02 – 1/4
5	0.5	2050	412.JD-8	XB77S-9
6	0.5	2524B	412.JD-9	XF77S:02 –1/5
7	0.5	2522B	412.JD-10	XF77S:02 –1/3
8	0.5	4244	412.JD-11	XF77S:02 –40
9	0.5	4207	412.JD-12	XF77S:02 –23
10	0.5	4203	412.JD-15	XF77S:02 –8

***412.JG SUB D 25 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2099B	412.JG-3	XF77S:03 – 7
2	0.5	2099B	412.JG-4	XF77S:03 – 8
3	0.5	2099B	412.JG-6	XF77S:03 – 8
4	0.5	2099B	412.JG-7	XF77S:03 – 8
5	0.5	3020B	412.JG-9	XF77S:03 – 25
6	0.5	2099B	412.JG-10	XF77S:03 – 8
7	0.5	5673B	412.JG-15	XF77S:03 – 1/12
8	0.5	5672B	412.JG-17	XF77S:03 – 1/11
9	0.5	3071B	412.JG-18	XF77S:03 – 1/8
10	0.5	2542B	412.JG-19	XF77S:03 – 1/12
11	0.5	2532B	412.JG-20	XF77S:03 – 1/9
12	0.5	2099B	412.JG-22	XF77S:03 – 9
13	0.5	2807B	412.JG-23	XF77S:03 – 1/3

***412.JJ SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
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1	0.5	2315	412.JJ-1	XF77S:01 -11
2	0.5	4203	412.JJ-4	XF77S:02 -13
3	0.5	2099B	412.JJ-6	XF77S:03 -9
4	0.5	2301	412.JJ-9	130.1A-2+
5	0.5	311	412.JJ-12	XF77S:02 -6
6	0.5	3503B	412.JJ-13	XF77S:02 -26

***412.LA SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2855B	412.LA-1	XF77S:01 -1/5
2	0.5	2852B	412.LA-2	XF77S:01 -1/3
3	0.5	2856B	412.LA-3	XF77S:01 -1/6
4	0.5	2851B	412.LA-4	XF77S:01 -1/2
5	0.5	2050	412.LA-8	XB77S-12
6	0.5	2853B	412.LA-9	XF77S:01 -1/4
7	0.5	2857B	412.LA-10	XF77S:01 -1/7
8	0.5	2850B	412.LA-11	XF77S:01 -1/1
9	0.5	2858	412.LA-12	XF77S:01 -15
10	0.5	4203	412.LA-15	XF77S:01 -13

***412.LD SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2302	412.LD-1	XF77S:01 -6
2	0.5	4228	412.LD-2	XF77S:02 -32
3	0.5	3051	412.LD-3	XF77S:01 -32
4	0.5	4220	412.LD-4	XF77S:01 -28
5	0.5	2050	412.LD-8	XB77S-12
6	0.5	3052	412.LD-9	XF77S:01 -33
7	0.5	4229	412.LD-10	XF77S:02 -33
8	0.5	3070	412.LD-11	XF77S:01 -39
9	0.5	3000	412.LD-12	XF77S:01 -16
10	0.5	4203	412.LD-15	XF77S:02 -9

***412.LJ SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2064	412.LJ-2	XF77S:01 -2
2	0.5	3110	412.LJ-3	XF77S:02 -1
3	0.5	4203	412.LJ-4	XF77S:02 -9
4	0.5	2105A	412.LJ-9	XF77S:03 -14
5	0.5	4203	412.LJ-10	XF77S:02 -10
6	0.5	3113	412.LJ-12	XF77S:02 -4

FOR WAP 7 & 5 ONLY

7	0.5	HL02	412.LJ-6	XF77S:01 -54
8	0.5	HL12	412.LJ-13	XF77S:03 -55

***412.NI SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2098B	412.NI-1	XF77S:03 -3
2	0.5	2050	412.NI-3	XK77S -13

***412.OA SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2840B	412.OA-1	XF77S:01 -1/8
2	0.5	3005B	412.OA-2	XF77S:03 -24
3	0.5	2540B	412.OA-3	XF77S:02 -1/10
4	0.5	3034B	412.OA-4	XF77S:03 -26
5	0.5	2050	412.OA-8	XB77S-13
6	0.5	2500B	412.OA-9	XF77S:03 -20
7	0.5	2897	412.OA-10	XF77S:01 -1/9
8	0.5	3069B	412.OA-11	XF77S:03 -1/7
9	0.5	3035B	412.OA-12	XF77S:03 -1/5
10	0.5	3035B	412.OA-15	XF77S:02 -14

***412.OD SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	3033B	412.OD-1	XF77S:03 -1/4
2	0.5	2527B	412.OD-2	XF77S:02 -1/8
3	0.5	2521B	412.OD-3	XF77S:02 -1/2
4	0.5	2323B	412.OD-4	XF77S:02 -1/4
5	0.5	2050	412.OD-8	XB77S-13
6	0.5	2525B	412.OD-9	XF77S:02 -1/6
7	0.5	2520B	412.OD-10	XF77S:02 -1/1
8	0.5	2522B	412.OD-11	XF77S:02 -1/3
9	0.5	5671B	412.OD-12	XF77S:03 -1/10
10	0.5	4204	412.OD-15	XF77S:02 -14

***412.OG SUB D 25 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2099B	412.OG-2	XF77S:03 -10
2	0.5	4237B	412.OG-3	XF77S:03 -32
3	0.5	2099B	412.OG-7	XF77S:03 -10
4	0.5	4239B	412.OG-14	XF77S:03 -33
5	0.5	2099B	412.OG-15	XF77S:03 -10
6	0.5	5672B	412.OG-19	XF77S:03 -1/11

7	0.5	5673B	412.OG-20	XF77S:03 –1/12
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***412.OJ SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	3101	412.OJ-2	XF77S:01 –41
2	0.5	3046B	412.OJ-3	XF77S:01 –1/10
3	0.5	4204	412.OJ-4	XF77S:02 –17
4	0.5	4204	412.OJ-6	XF77S:02 –17
5	0.5	3016	412.OJ-7	XF77S:01 –18
6	0.5	4224	412.OJ-9	XF77S:02 –29
7	0.5	3101	412.OJ-10	XF77S:01 –42
8	0.5	4226	412.OJ-12	XF77S:01 –1/11
9	0.5	4225	412.OJ-13	XF77S:02–30
10	0.5	3051	412.OJ-14	XF77S:01 –32

***412.QA SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2307	412.QA-1	XF77S:01 -7
2	0.5	3070	412.QA-2	XF77S:01 -39
3	0.5	3056	412.QA-3	XF77S:01 -37
4	0.5	3059	412.QA-4	XF77S:01 -38
5	0.5	2050	412.QA-8	XB77S-13
6	0.5	2308	412.QA-9	XF77S:01 -8
7	0.5	3008	412.QA-10	XF77S:01 -17
8	0.5	3055	412.QA-11	XF77S:01 -36
9	0.5	3051	412.QA-12	XF77S:01 -32
10	0.5	4204	412.QA-15	XF77S:02-18

***412.QD SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	3050	412.QJ-1	XF77S:01 -31
2	0.5	3038	412.QJ-2	XF77S:01 -24
3	0.5	3053	412.QJ-3	XF77S:01 -34
4	0.5	3036	412.QJ-4	XF77S:01 -23
5	0.5	2050	412.QJ-8	XB77S-9
6	0.5	2302	412.QJ-9	XF77S:01 -6
7	0.5	4227	412.QJ-10	XF77S:02 -31
8	0.5	3044	412.QJ-11	XF77S:01 -28
9	0.5	3043	412.QJ-12	XF77S:01 -27
10	0.5	4204	412.QJ-15	XF77S:02-18

***412.QG SUB D 25 PIN**

Sl.	Cable Cross	Cable no.	Connection From	Connection To
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No.	Section			
1	0.5	4204	412.QG-2	XF77S:02 -19
2	0.5	3112	412.QG-3	XF77S:02 -3
3	0.5	3101	412.QG-4	XF77S:01 -42
4	0.5	3101	412.QG-6	XF77S:01 -43
5	0.5	3101	412.QG-9	XF77S:01 -23
6	0.5	2064	412.QG-10	XF77S:01 -1
7	0.5	3029	412.QG-12	XF77S:01 -22
8	0.5	3111	412.QG-14	XF77S:02 -2
9	0.5	4204	412.QG-15	XF77S:02 -19
10	0.5	3028	412.QG-17	XF77S:01 -21
11	0.5	3048	412.QG-18	XF77S:01 -30
12	0.5	3047	412.QG-22	XF77S:01 -29
13	0.5	2105B	412.QG-23	XF77S:03 -15
14	0.5	3101	412.QG-24	XF77S:01 -43

***412.QJ SUB D 15 PIN**

Sl. No.	Cable Cross Section	Cable no.	Connection From	Connection To
1	0.5	2309B	412.QJ-1	XF77S:03 -18
2	0.5	4204	412.QJ-3	XF77S:02 -14
3	0.5	2315	412.QJ-9	XF77S:01 -11
4	0.5	3116	412.QJ-10	XF77S:02 -5

*** Sub-D Connectors along with related Cabling are to be deleted from the scope of supply as per Dy.CEE/D&D letter no.C-D&D /T/42 dated.14.06.2021**