

CHAPTER ONE: INTRODUCTION	1
STUDY GOALS AND OBJECTIVES.....	1
REASONS FOR DOING THE STUDY	2
SCOPE OF THE REPORT	3
INTENDED AUDIENCE.....	4
METHODOLOGY AND INFORMATION SOURCES.....	4
ABOUT THE AUTHOR.....	4
RELATED BCC REPORTS	5
BCC ONLINE SERVICES.....	5
DISCLAIMER	5
 CHAPTER TWO: EXECUTIVE SUMMARY.....	 6
<i>SUMMARY TABLE THE GLOBAL CABLE MARKET, BY FUNCTIONAL APPLICATION, THROUGH 2015 (\$ MILLIONS)</i>	6
<i>SUMMARY FIGURE THE GLOBAL CABLE MARKET, BY FUNCTIONAL APPLICATION, 2008-2015 (\$ MILLIONS)</i>	7
 CHAPTER THREE: THE TAXONOMY OF CABLE CLASSES	 8
INTRODUCTION	8
GLOBAL CABLE MARKET OVERVIEW	8
<i>TABLE 1 THE GLOBAL CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS)</i>	9
<i>TABLE 2 THE GLOBAL CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS)</i>	10
CABLE TYPES AND THEIR APPLICATIONS.....	11
Airframe and Military Wire and Cable	11
Appliance Wiring Material (AWM).....	11
Bulk Cords	12
Computer and Multimedia Cables.....	12
Cable Television (CATV) Drop and Trunk Lines	12
Extension Cords.....	12
Flat Cable.....	13
Flexible Cables.....	13
Jelly Filled Cables	13
Metal-clad Cable and Armored Cable.....	14
Machine Tool Wire.....	14
High-voltage Cables.....	14
High-voltage Cables (Continued)	15
High-voltage Cables (Continued)	16
Hookup Wire	17
Motor Lead Wire.....	17
Multi-conductor Electronic Cable	18
Nonmetallic-sheathed Cables	18
Paper Power Cable	18
Portable Power Cable	18

Power-limited Circuit Cable.....	19
Premise Wiring	19
Service-entrance Cables	19
Shipboard Wire and Cable	20
Submarine Cables.....	20
Thermocouple Wire.....	21
Thermoplastic-insulated Underground Feeder and Branch Circuit Cables	21
Thermoplastic-insulated Wire and Cables	22
Thermoset Insulated Wire and Cable.....	22
Transit Wire and Cable.....	22
Uninsulated Electrical Conductors.....	22
Welding Cable.....	23
TECHNOLOGY AND MARKET DETAILS OF POWER CABLES	23
TECHNOLOGY OVERVIEW AND KEY CONCEPTS.....	23
Cable Conducting Material	24
Cable Conducting ... (Continued).....	25
Ampacity	26
Alternating Current (AC).....	26
Alternating Current ... (Continued).....	27
Skin Effect.....	28
Direct Current (DC).....	28
Two-wire and Three-wire Cables	29
Modular Wiring	29
MARKET OVERVIEW	29
<i>TABLE 3 THE GLOBAL POWER CABLE MARKET, BY METAL, THROUGH 2015 (\$ MILLIONS).....</i>	<i>30</i>
<i>TABLE 4 THE GLOBAL POWER CABLE MARKET, BY METAL, THROUGH 2015 (KG MILLIONS).....</i>	<i>30</i>
<i>TABLE 5 AVERAGE SELLING PRICE (ASP) OF POWER CABLES TO MANUFACTURERS AND END USERS, BY METAL, 2008-2015 (\$/KG)</i>	<i>31</i>
<i>TABLE 6 THE GLOBAL POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS).....</i>	<i>32</i>
<i>TABLE 7 THE GLOBAL POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (KG MILLIONS).....</i>	<i>33</i>
<i>TABLE 8 AVERAGE SELLING PRICE (ASP) OF POWER CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KG).....</i>	<i>34</i>
<i>TABLE 9 THE GLOBAL POWER CABLE MARKET, BY GEOGRAPHICAL REGION, 2008-2015 (\$ MILLIONS).....</i>	<i>35</i>
<i>TABLE 10 THE GLOBAL POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (KG MILLIONS).....</i>	<i>35</i>

<i>TABLE 11 AVERAGE SELLING PRICE (ASP) OF POWER CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KG)</i>	36
TECHNOLOGY AND MARKET DETAILS OF TELECOM CABLES	36
TECHNOLOGY OVERVIEW AND KEY CONCEPTS	37
Optical Fiber Cables	37
Optical Fiber ... (Continued)	38
Coaxial Cable	39
Coaxial Cable (Continued).....	40
Coaxial Cable (Continued).....	41
Twisted Pair Cable	42
Twisted Pair ... (Continued).....	43
UTP: The Eternal Favorite.....	44
Home Telephone Cabling.....	44
Ethernet and UTP	45
Comparison between UTP and STP.....	46
Structured Cabling	46
Cabling Categories	47
MARKET OVERVIEW	48
<i>TABLE 12 THE GLOBAL TELECOM CABLE MARKET, BY DISTANCE, THROUGH 2015 (\$ MILLIONS)</i>	48
<i>TABLE 13 SHIPMENT SALES OF TELECOM CABLES TO MANUFACTURERS AND END USERS, BY DISTANCE, THROUGH 2015 (\$/KM-PAIR)</i>	49
<i>TABLE 14 AVERAGE SELLING PRICE (ASP) OF TELECOM CABLES TO MANUFACTURERS AND END USERS, BY DISTANCE, THROUGH 2015 (MILLIONS OF UNITS)</i>	50
<i>TABLE 15 THE GLOBAL TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS)</i>	51
<i>TABLE 16 THE GLOBAL TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (MILLIONS OF UNITS)</i>	52
<i>TABLE 17 AVERAGE SELLING PRICE (ASP) OF TELECOM CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KM-PAIR)</i>	53
<i>TABLE 18 THE GLOBAL TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS)</i>	54
<i>TABLE 19 THE GLOBAL TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (MILLIONS OF UNITS)</i>	54
<i>TABLE 20 AVERAGE SELLING PRICE (ASP) OF TELECOM CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KM-PAIR)</i>	55
POWER CABLE MARKET BREAKDOWN BY VOLTAGE CAPACITY AND FUNCTIONAL PROFILE	55

MARKET ANALYSIS OF ELV POWER CABLES	56
TABLE 21 THE GLOBAL ELV POWER CABLE MARKET, BY METAL, THROUGH 2015 (\$ MILLIONS).....	57
TABLE 22 THE GLOBAL ELV POWER CABLE MARKET, BY METAL, THROUGH 2015 (KG MILLIONS).....	57
TABLE 23 THE GLOBAL ELV POWER CABLE MARKET, BY END- DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS).....	58
TABLE 24 THE GLOBAL ELV POWER CABLE MARKET, BY END- DEVICE CATEGORY, THROUGH 2015 (KG MILLIONS).....	59
TABLE 25 THE GLOBAL ELV POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS).....	59
TABLE 26 THE GLOBAL ELV POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (KG MILLIONS).....	60
MARKET ANALYSIS OF LOW-VOLTAGE POWER CABLES.....	60
TABLE 27 THE GLOBAL LOW-VOLTAGE CABLE MARKET, BY METAL, THROUGH 2015 (\$ MILLIONS).....	61
TABLE 28 THE GLOBAL LOW-VOLTAGE POWER CABLE MARKET, BY METAL, THROUGH 2015 (KG MILLIONS).....	61
TABLE 29 THE GLOBAL LOW-VOLTAGE POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS).....	62
TABLE 30 THE GLOBAL LOW-VOLTAGE POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (KG MILLIONS).....	63
TABLE 31 THE GLOBAL LOW-VOLTAGE POWER MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS).....	63
TABLE 32 THE GLOBAL LOW-VOLTAGE POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (KG MILLIONS).....	64
MARKET ANALYSIS OF HIGH-VOLTAGE POWER CABLES	64
TABLE 33 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY METAL, THROUGH 2015 (\$ MILLIONS).....	65
TABLE 34 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY METAL, THROUGH 2015 (KG MILLIONS).....	65
TABLE 35 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS).....	66
TABLE 36 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (KG MILLIONS).....	67
TABLE 37 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS).....	67
TABLE 38 THE GLOBAL HIGH-VOLTAGE POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (KG MILLIONS).....	68
MARKET ANALYSIS OF MAGNETIC APPLICATION POWER CABLES	68
TABLE 39 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY METAL, THROUGH 2015 (\$ MILLIONS).....	69

<i>TABLE 40 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY METAL, THROUGH 2015 (KG MILLION)</i>	69
<i>TABLE 41 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS)</i>	70
<i>TABLE 42 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (KG MILLIONS)</i>	71
<i>TABLE 43 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS)</i>	71
<i>TABLE 44 THE GLOBAL MAGNETIC APPLICATION POWER CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (KG MILLIONS)</i>	72
TELECOM CABLE MARKET BREAKDOWN BY CHOICE OF CONDUCTOR.....	72
MARKET ANALYSIS OF METAL TELECOM CABLES	73
<i>TABLE 45 THE GLOBAL METAL TELECOM CABLE MARKET, BY DISTANCE, THROUGH 2015 (\$ MILLIONS)</i>	73
<i>TABLE 46 THE GLOBAL METAL TELECOM CABLE MARKET, BY DISTANCE, 2008-2015 (MILLIONS OF UNITS)</i>	74
<i>TABLE 47 THE GLOBAL METAL TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS)</i>	74
<i>TABLE 48 THE GLOBAL METAL TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (MILLIONS OF UNITS)</i>	75
<i>TABLE 49 THE GLOBAL METAL TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS)</i>	76
<i>TABLE 50 THE GLOBAL METAL TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (MILLIONS OF UNITS)</i>	76
MARKET ANALYSIS OF FIBER-OPTIC TELECOM CABLES	77
<i>TABLE 51 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY DISTANCE, THROUGH 2015 (\$ MILLIONS)</i>	77
<i>TABLE 52 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY DISTANCE, THROUGH 2015 (MILLIONS OF UNITS)</i>	78
<i>TABLE 53 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (\$ MILLIONS)</i>	78
<i>TABLE 54 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY END-DEVICE CATEGORY, THROUGH 2015 (MILLIONS OF UNITS)</i>	79
<i>TABLE 55 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (\$ MILLIONS)</i>	80

<i>TABLE 56 THE GLOBAL FIBER-OPTIC TELECOM CABLE MARKET, BY GEOGRAPHICAL REGION, THROUGH 2015 (MILLIONS OF UNITS)</i>	80
CHAPTER FOUR: RAW MATERIALS AND PRICING	81
PRINCIPLE RAW MATERIALS.....	81
COPPER	81
Introduction	81
Introduction (Continued).....	82
Pricing Momentum	83
ALUMINUM.....	83
Introduction	83
Introduction (Continued).....	84
Pricing Momentum	85
OPTICAL FIBER.....	86
Pricing Momentum	86
ASP TRENDS.....	86
ASP TRENDS: ELV POWER CABLES.....	87
<i>TABLE 57 AVERAGE SELLING PRICE (ASP) OF ELV POWER CABLES TO MANUFACTURERS AND END USERS, BY METAL, 2008-2015 (\$/KG)</i>	87
<i>TABLE 58 AVERAGE SELLING PRICE (ASP) OF ELV POWER CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KG)</i>	88
<i>TABLE 59 AVERAGE SELLING PRICE (ASP) OF ELV POWER CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KG)</i>	89
ASP TRENDS: LOW VOLTAGE POWER CABLES.....	89
<i>TABLE 60 AVERAGE SELLING PRICE (ASP) OF LOW-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY METAL, 2008-2015 (\$/KG)</i>	90
<i>TABLE 61 AVERAGE SELLING PRICE (ASP) OF LOW-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KG)</i>	90
<i>TABLE 62 AVERAGE SELLING PRICE (ASP) OF LOW-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KG)</i>	91
ASP TRENDS: HIGH-VOLTAGE POWER CABLES.....	92
<i>TABLE 63 AVERAGE SELLING PRICE (ASP) OF HIGH-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY METAL, 2008-2015 (\$/KG)</i>	92
<i>TABLE 64 AVERAGE SELLING PRICE (ASP) OF HIGH-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KG)</i>	93

<i>TABLE 65 AVERAGE SELLING PRICE (ASP) OF HIGH-VOLTAGE POWER CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KG)</i>	94
ASP TRENDS: MAGNETIC APPLICATION POWER CABLES.....	94
<i>TABLE 66 AVERAGE SELLING PRICE (ASP) OF MAGNETIC APPLICATION POWER CABLES TO MANUFACTURERS AND END USERS, BY METAL, 2008-2015 (\$/KG)</i>	95
<i>TABLE 67 AVERAGE SELLING PRICE (ASP) OF MAGNETIC APPLICATION POWER CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KG)</i>	95
<i>TABLE 68 AVERAGE SELLING PRICE (ASP) OF MAGNETIC APPLICATION POWER CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KG)</i>	96
ASP TRENDS: METAL TELECOM CABLES	97
<i>TABLE 69 AVERAGE SELLING PRICE (ASP) OF METAL TELECOM CABLES TO MANUFACTURERS AND END USERS, BY DISTANCE, THROUGH 2015 (\$/KM-PAIR)</i>	97
<i>TABLE 70 AVERAGE SELLING PRICE (ASP) OF METAL TELECOM CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KM-PAIR)</i>	98
<i>TABLE 71 AVERAGE SELLING PRICE (ASP) OF METAL TELECOM CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KM-PAIR)</i>	99
ASP TRENDS: FIBER-OPTIC TELECOM CABLES	99
<i>TABLE 72 AVERAGE SELLING PRICE (ASP) OF FIBER-OPTIC TELECOM CABLES TO MANUFACTURERS AND END USERS, BY DISTANCE, 2008-2015 (\$/KM-PAIR)</i>	100
<i>TABLE 73 AVERAGE SELLING PRICE (ASP) OF FIBER-OPTIC TELECOM CABLES TO MANUFACTURERS AND END USERS, BY END-DEVICE CATEGORY, 2008-2015 (\$/KM-PAIR)</i>	101
<i>TABLE 74 AVERAGE SELLING PRICE (ASP) OF FIBER-OPTIC TELECOM CABLES TO MANUFACTURERS AND END USERS, BY GEOGRAPHICAL REGION, 2008-2015 (\$/KM-PAIR)</i>	102
CHAPTER FIVE: VENDOR AND MARKET ANALYSIS	103
MARKET AT A GLANCE	103
EXTREME FRAGMENTATION	103
HIGH LEVELS OF STANDARDIZATION	104
Cabling Size Specification Standards: American Wire Gauge (AWG).....	104
Cabling Size Specification Standards: IEC 60228	104
VERTICAL INTEGRATION.....	105
MERGERS AND ACQUISITIONS	105
LIMITED LEGISLATIVE INTRUSION	105
ACTIVITY SUMMARY OF MAJOR STAKEHOLDERS	106

AKSH OPTIFIBER.....	106
General Background.....	106
Cable and Wire Industry Activity.....	106
Outlook and Analysis	107
ALCAN CABLE.....	107
General Background.....	107
Cable and Wire Industry Activity.....	107
Outlook and Analysis	107
AMPHENOL.....	108
General Background.....	108
Cable and Wire Industry Activity.....	108
Outlook and Analysis	109
BELDEN.....	109
General Background.....	109
Cable and Wire Industry Activity.....	109
Outlook and Analysis	110
COMMSCOPE.....	110
General Background.....	110
Cable and Wire Industry Activity.....	110
Outlook and Analysis	111
CORNING INC.....	111
General Background.....	111
Cable and Wire Industry Activity.....	112
Outlook and Analysis	112
DRAKA	112
General Background.....	112
Cable and Wire Industry Activity.....	113
Outlook and Analysis	113
EL SEWEDY.....	113
General Background.....	113
Cable and Wire Industry Activity.....	114
Outlook and Analysis	114
FINOLEX CABLES.....	114
General Background.....	114
Cable and Wire Industry Activity.....	114
Outlook and Analysis	115
FUJIKURA LIMITED.....	115
General Background.....	115
Cable and Wire Industry Activity.....	115
Outlook and Analysis	116
GENERAL CABLE CORPORATION.....	116
General Background.....	116
Cable and Wire Industry Activity.....	116
Cable and ... (Continued)	117

Outlook and Analysis	118
LEONI.....	118
General Background.....	118
Cable and Wire Industry Activity	118
Outlook and Analysis	119
LEVITON.....	119
General Background.....	119
Cable and Wire Industry Activity	119
Outlook and Analysis	120
MOLEX	120
General Background.....	120
Cable and Wire Industry Activity	120
Outlook and Analysis	121
NEXANS.....	121
Website: www.nexans.com	121
General Background.....	121
Cable and Wire Industry Activity	121
Outlook and Analysis	122
POLYCAB WIRES.....	122
General Background.....	122
Cable and Wire Industry Activity	122
Outlook and Analysis	123
PRYSMIAN.....	123
General Background.....	123
Cable and Wire Industry Activity	123
Outlook and Analysis	124
SAUDI CABLE COMPANY	124
General Background.....	124
Cable and Wire Industry Activity	124
Outlook and Analysis	124
SOUTHWIRE COMPANY	125
General Background.....	125
Cable and Wire Industry Activity	125
Outlook and Analysis	125
STERLITE TECHNOLOGIES.....	126
General Background.....	126
Cable and Wire Industry Activity	126
Outlook and Analysis	127
SUMITOMO ELECTRIC INDUSTRIES.....	127
General Background.....	127
Cable and Wire Industry Activity	127
Outlook and Analysis	127
THE FURUKAWA ELECTRIC CO. LTD.....	128
General Background.....	128

Cable and Wire Industry Activity.....	128
Outlook and Analysis	129
TYCO ELECTRONICS LIMITED	129
General Background.....	129
Cable and Wire Industry Activity.....	130
Outlook and Analysis	130
W. L. GORE & ASSOCIATES, INC.....	130
General Background.....	130
Cable and Wire Industry Activity.....	131
Outlook and Analysis	131
YAZAKI CORPORATION.....	131
General Background.....	131
Cable and Wire Industry Activity.....	131
Outlook and Analysis	132
ZHUHAI HANSEN TECHNOLOGY CO. LTD.....	132
General Background.....	132
Cable and Wire Industry Activity.....	132
Outlook and Analysis	132
OTHER NOTABLE CABLE SUPPLIERS	133
OTHER NOTABLE CABLE SUPPLIERS (CONTINUED).....	134
CHAPTER SIX: U.S. PATENT ANALYSIS.....	135
INTRODUCTION	135
TRENDS BY FUNCTIONAL CATEGORIES	136
TRENDS BY FUNCTIONAL CATEGORIES (CONTINUED).....	137
TRENDS BY FUNCTIONAL CATEGORIES (CONTINUED).....	138
TRENDS BY FUNCTIONAL CATEGORIES (CONTINUED).....	139
TRENDS BY FUNCTIONAL CATEGORIES (CONTINUED).....	140
<i>TABLE 75 U.S. PATENTS IN ELECTRICAL AND TELECOMMUNICATIONS CABLES BY PATENT CATEGORY, 1976 TO SEPTEMBER 2010.....</i>	<i>141</i>
TRENDS BY YEAR.....	142
<i>TABLE 76 U.S. PATENT TRENDS IN ELECTRICAL AND TELECOMMUNICATIONS CABLES BY YEAR OF GRANT, 1976 TO SEPTEMBER 2010.....</i>	<i>142</i>
TRENDS BY COUNTRY	142
<i>TABLE 77 SHARES OF U.S. PATENTS IN ELECTRICAL AND TELECOMMUNICATIONS CABLES BY COUNTRY OF GRANT, 1976 TO SEPTEMBER 2010.....</i>	<i>143</i>
TRENDS BY ASSIGNEE	144
<i>TABLE 78 LIST OF ASSIGNEES FOR THE U.S. IN ELECTRICAL AND TELECOMMUNICATIONS CABLES, 1976 TO SEPTEMBER 2010</i>	<i>144</i>
<i>TABLE 78 (CONTINUED).....</i>	<i>145</i>
<i>TABLE 78 (CONTINUED).....</i>	<i>146</i>
<i>TABLE 78 (CONTINUED).....</i>	<i>147</i>

<i>TABLE 78 (CONTINUED)</i>	148
<i>TABLE 78 (CONTINUED)</i>	149
<i>TABLE 78 (CONTINUED)</i>	150
<i>TABLE 78 (CONTINUED)</i>	151
<i>TABLE 78 (CONTINUED)</i>	152
<i>TABLE 78 (CONTINUED)</i>	153
<i>TABLE 78 (CONTINUED)</i>	154
<i>TABLE 78 (CONTINUED)</i>	155
<i>TABLE 79 ASSIGNEES OF FOUR OR MORE U.S. PATENTS IN ELECTRICAL AND TELECOMMUNICATIONS CABLES, 1976 TO SEPTEMBER 2010</i>	156
<i>TABLE 79 (CONTINUED)</i>	157
<i>TABLE 79 (CONTINUED)</i>	158
<i>TABLE 80 COMPLETE LIST OF U.S. PATENTS IN ELECTRICAL AND TELECOMMUNICATIONS CABLES, 1976 TO SEPTEMBER 2010</i>	159
<i>TABLE 80 (CONTINUED)</i>	160
<i>TABLE 80 (CONTINUED)</i>	161
<i>TABLE 80 (CONTINUED)</i>	162
<i>TABLE 80 (CONTINUED)</i>	163
<i>TABLE 80 (CONTINUED)</i>	164
<i>TABLE 80 (CONTINUED)</i>	165
<i>TABLE 80 (CONTINUED)</i>	166
<i>TABLE 80 (CONTINUED)</i>	167
<i>TABLE 80 (CONTINUED)</i>	168
<i>TABLE 80 (CONTINUED)</i>	169
<i>TABLE 80 (CONTINUED)</i>	170
<i>TABLE 80 (CONTINUED)</i>	171
<i>TABLE 80 (CONTINUED)</i>	172
<i>TABLE 80 (CONTINUED)</i>	173
<i>TABLE 80 (CONTINUED)</i>	174
<i>TABLE 80 (CONTINUED)</i>	175
<i>TABLE 80 (CONTINUED)</i>	176
<i>TABLE 80 (CONTINUED)</i>	177
<i>TABLE 80 (CONTINUED)</i>	178
<i>TABLE 80 (CONTINUED)</i>	179
<i>TABLE 80 (CONTINUED)</i>	180
<i>TABLE 80 (CONTINUED)</i>	181
<i>TABLE 80 (CONTINUED)</i>	182
<i>TABLE 80 (CONTINUED)</i>	183
<i>TABLE 80 (CONTINUED)</i>	184
<i>TABLE 80 (CONTINUED)</i>	185
<i>TABLE 80 (CONTINUED)</i>	186
<i>TABLE 80 (CONTINUED)</i>	187
<i>TABLE 80 (CONTINUED)</i>	188

<i>TABLE 80 (CONTINUED)</i>	189
<i>TABLE 80 (CONTINUED)</i>	190
<i>TABLE 80 (CONTINUED)</i>	191
<i>TABLE 80 (CONTINUED)</i>	192