





Leading Solution

LS aims to develop into a company that provides its clients with a Leading Solution, contributes to the overall society, and offers a business environment where the employees can realize their dreams.

Always with our customers

LS Cable is leading the cable, telecommunication industry. It also represents the LS Group. With its company vision, "Always with our customers." LS Cable continuously drives towards becoming the global leading company providing the technology as required by customers and the solution that others cannot offer.

Towards the global leading company

All employees of LS Cable stand behind the vision of becoming Your No.1 Creative Partner and are doing their best to realize our customers' satisfaction. Securing and establishing a firm growth engine, LS Cable will be reborn as an enterprise to leap worldwide

Electric Power Business

Human communication connecting minds

LS Cable

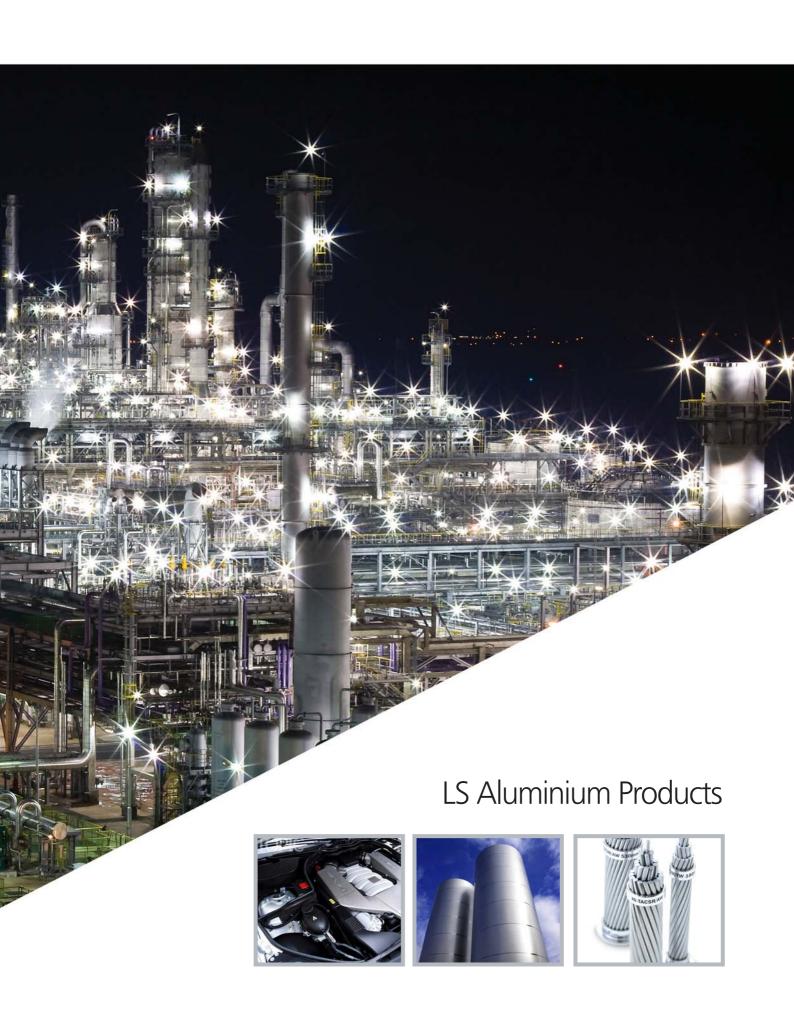
Main energy artery lighting the world

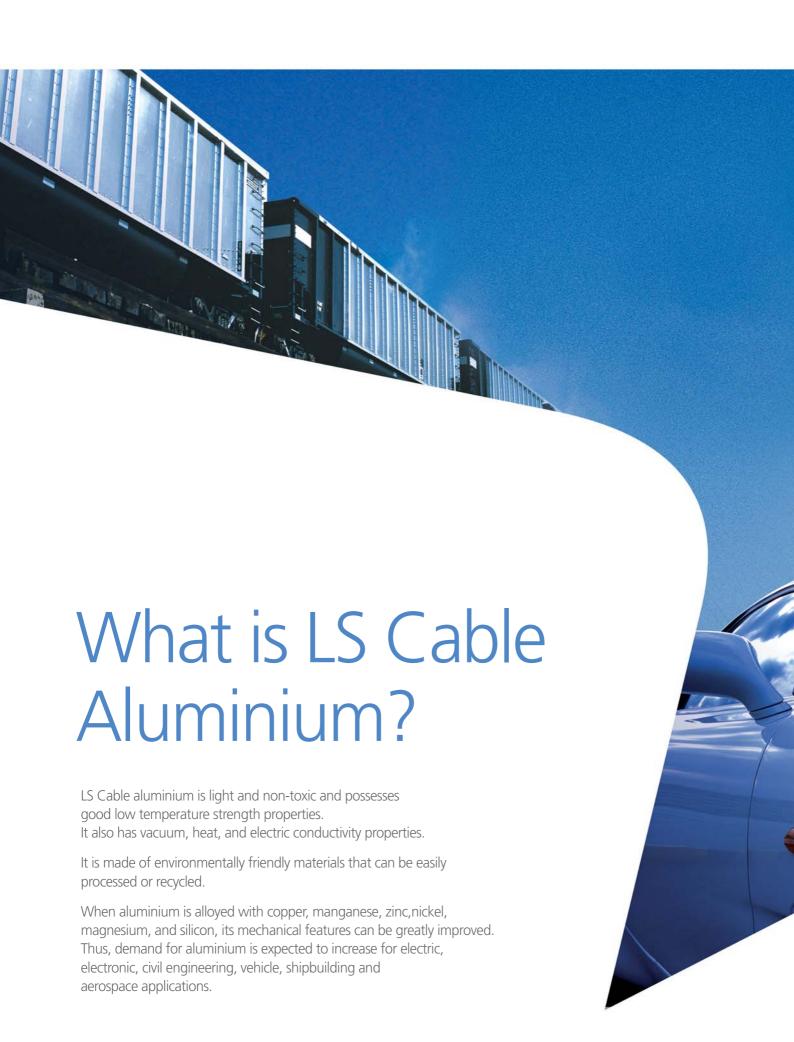
Telecommunication Business

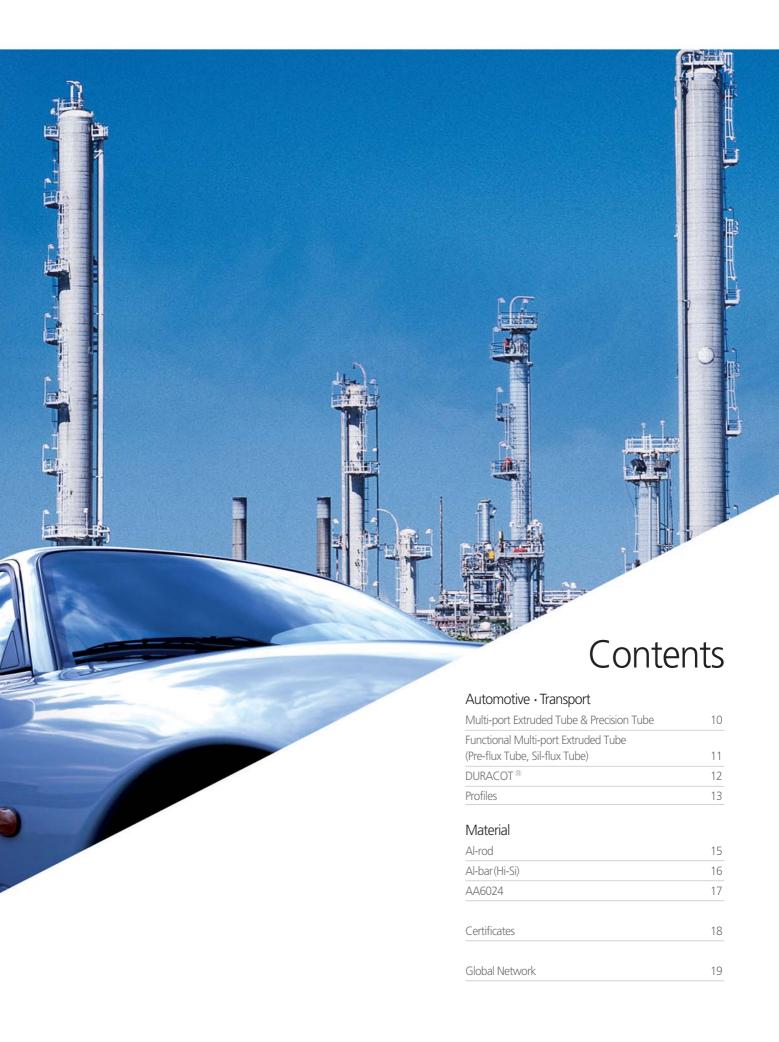
Awakening and changing prime power

Research & Development









Automotive · Transport

Aluminium can save the fuel of transportation vehicle and simultaneously obtain heat exchange efficiency as heat exchanger parts, utilizing the light weight, high strength and high thermal conductivity of aluminium.

Product

Multi-port Extruded Tube Precision Tube DURACOT®



Automotive · Transport Multi-port Extruded Tube & Precision Tube

Multi-port Extruded Tube

Cross section





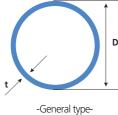
Dimension & Tolerance

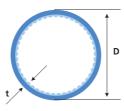
Items	Dimension	Tolerance		
Diameter (D)	1.0~4.0mm	±0.02		
Thickness (T)	10~38mm	<u>+</u> 0.02		
Wall Thickness	Normal 0.5mm			
	Min. 0.2mm			
Cutting Length	200~3000	<u>+</u> 0.5		

Application: Condenser, Evaporator, Radiator, Oil-cooler etc

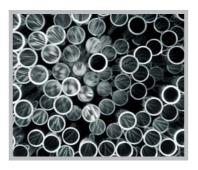
Precision Tube

Cross section









Dimension & Tolerance

Items	Dimension	Tolerance
Diameter(D)	4~22mm	±0.05
Thickness(T)	0.5~1.8mm	±0.05
Cutting Length	200~3000	<u>±</u> 0.5

^{*} Material: 1xxx, 3xxx, 6xxx.

Automotive · Transport Functional Multi-port Extruded Tube (Pre-flux Tube, Sil-flux Tube)

Pre-flux Tube

Features

Coating Material	NOCOLOK Flux
Zn-spray	O/X
Fin	3-layer Clad fin(4XXX / 3XXX / 4XXX)
Filler Metal	Clad Material (4XXX)
Danafit	- No need flux-spray process in brazing line
Benefit	- Easy to keep clean the brazing area



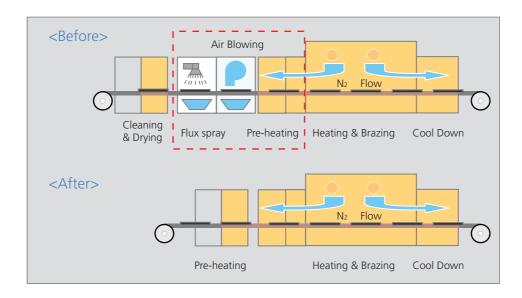
Sil-flux Tube

Features

Coating Material	Silicon Powder + NOCOLOK Flux
Zn-spray	O/X
Fin	Bare Fin (3xxx)
Filler Metal	Si-powder in the mixture
	- No need flux-spray process in brazing line
Benefit	- Only use bare fin instead of Al-Si clad fin
	- Save the material cost and processing cost(Using bare fin)



Brazing Process(Using Pre/Sil-flux Tube)



Automotive · **Transport** DURACOT®

PA 12 Coated Aluminium Tube

Features

- Excellent resistance to salt corrosion
- Same work ability as for the Aluminium Tube without PA12 coating
- High cleanliness
- High resistance to stone chips
- High Durability
- Low weight and therefore lower fuel consumption
- Recyclable



Construction



Application

Tube material

• Core : AA3003

· Coating : PA 12

Coating colors

• Black

Tube mechanical Properties

Property	Value
Tensile strength(N/m ²)	105 ↑
Elongation(%)	15 ↑

Tube cleanliness

All internal and external surface are free from foreign materials that might impair the performance.

Cut-to-length

· Length: 100 ~ 4,000 mm

Main dimension and tolerance of tube

Outer diameter of tube: 4 ~ 22 mm
 Thickness of tube: 0.5 ~ 1.8 mm
 Coating thickness: 100 ~ 1,000 μm
 Tolerance: Accoding to KSD 6761



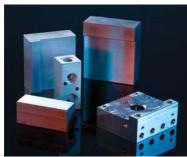
Al-Tube : A3003

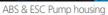
Si	0.6↓
Fe	0.7 ↓
Cu	0.05 ~ 0.2
Mn	1.0 ~ 1.5
Zn	0.1 ↓
Others	0.15 ↓

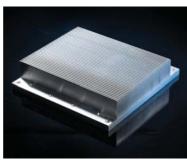
^{*} Coating material : Polyamide 12

Automotive · Transport Profiles

Product



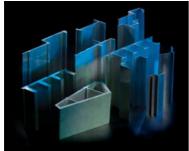




Heat sink for HEV



Drive shaft bracket



Container profile



Truck side panel



Industrial profiles

We offer extruded aluminium profiles, semi-manufactured components, systems and finished products-meeting our customer's demands for performance, quality, precision and economy.

Extrusion is the process that provides virtually unlimited opportunities for adapting product shapes. Costs are cut by using fewer components, which reduce the finishing process and simplify assembly.

Customer satisfaction and product excellence are our key goals.

Aluminium extrusions inspire creative designs and technical solutions that improve, simplify and reduce costs.

At the initial stage, we work together with our customers on product development.

V aterial

The light weight, high strength and high wear-resistance of aluminium improves the working efficiency of high velocity rotating parts allowing them to be made even smaller. Aluminium is used for everything frim automobile compressors to anything else requiring strength and light weight.

Product

Al-rod Al-bar(Hi-Si) AA6024

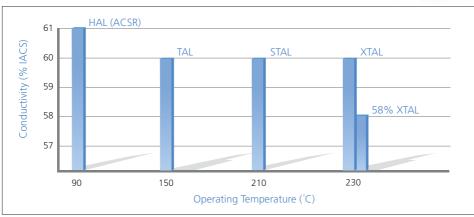


Material Al-rod





Thermal Resistant Al-rod



Туре	Application	UTS(Mpa)	Conductivity (% IACS)	Operating Temperature (Short time) / (℃)
HAL	ACSR	159 ~ 169 ↑	61.3 ↑	90 (120)
TAL	TACSR	159 ~ 169 ↑	60.0 ↑	150 (180)
STAL	STACIR	159 ~176 ↑	60.0 ↑	210 (240)
HITAL	HI-TACSR	225 ~238 ↑	55.0 ↑	150
XTAL	XTACIR	159 ~ 169 ↑	58.0 ↑ 60.0 ↑	230 (310)

High Capacity XTAL Alloy Lines

The first of its kind in the world, the main items of the XTAL alloy lines of a 60% level have world-class characteristics. This alloy is used for conductors for overhead power transmission lines that supply power from power plants to substations in suburban areas

Mother material for CONFORM® extrusion

Alloy: AA1050, AA1070, AA1100, AA3003, LLA*™ (Mn,Cu)

*LLA: Long life alloy

Material Al-bar(High-Si) for forging

Product





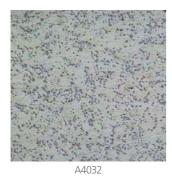
Forging Material & Final products

Al-bar

Chemical Composition

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ni	Other	Al
A4032	11.00~13.50	1.00 ↓	0.50~1.30	-	0.80~1.30	0.10 ↓	0.20 ↓	-	0.50~1.30	0.05 ↓	BAL
4000A	10.50~12.50	0.50 ↓	3.50~5.00	0.20 ↓	0.30~1.00	-	-	0.20 ↓	-	0.20 ↓	BAL
AP2X	11.00~12.50	0.20~0.30	4.00~4.60	0.20~0.30	0.50~0.70	-	0.25 ↓	0.30 ↓	-	0.20 ↓	BAL
A332	8.50~10.50	1.20 ↓	2.00~4.00	0.50 ↓	0.50~1.50	-	1.00 ↓	0.25 ↓	0.50 ↓	0.50 ↓	BAL

Micro-structure







Application

- Swash Plate
- Piston Rod
- Clutch Piston

- Socket Plate
- Suction & Discharge

Material Aluminum Alloy 6024

LS Aluminum, a leading company for the development of new Al alloy, has developed 6024 which is much stronger alloy than conventional 6061 Al alloy in the ways of LS's own.

Corrosion Resistance

Excellent Corrosion Resistance →The lowest cost of maintenance

Strength

Impact Resistance

much more improved

6024 Alloy

The 6024, adding Cu, Mn in Al-Mg-Si alloy, is more definitely superior than 6000 alloy.

Chemical Composition

Materials				Mn	Mg					Other
6061	0.4~0.8	0.7 ↓	0.15~0.4	0.15↓	0.8~1.2	0.25 ↓	0.15 ↓	0.04~0.35	-	-
6024	0.7~1.3	0.05~0.7	0.3~0.9	0.6~1.2	0.3~1.0	0.2 ↓	0.1 ↓	-	-	-

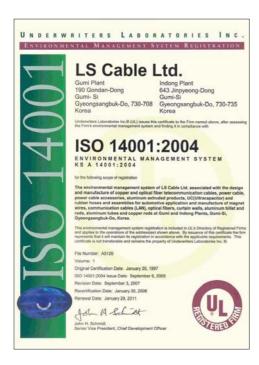
Mechanical Properties

Materials		Tensile Strength	Yield Strength	Elongation	Fatigue Property		Impact Resistance
		(kg/mm²)	(kg/mm²)		Δ (Threshold)		J
SS 400 (SS	SS 400 (SS41) 41 ~ 52		25 ~	21	-	-	-
SUS 316		41 ~ 53	20 ~ 28	20 ~ 40	-	-	-
6061	T4	18 ↑	11 ↑	16 ↑	-	-	43.9
6061 Te	T6	27 ↑	25 ↑	8 ↑	9.64	1.32	16.7
6024	T4	31 ~ 35	23 ~ 26	8 ↑	9.6 ~10.8	2.04 ~ 2.8	47.1
0024	T6	38 ~ 43	33 ~ 41	8↑	10.5 ~ 11.0	0.89 ~ 1.30	30.8

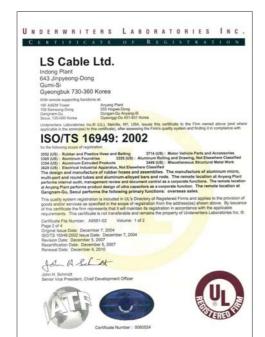
Material Properties

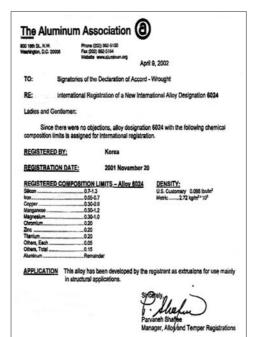
Materials	Tensile Strength	Corrosion Resistance	Weldability	Machinability	Microstructure
STEEL	100	D	A, B	В	-
6061	75	В	A, B	С	В, С
6024	~ 100	В	A, B	В	Α

Certificates

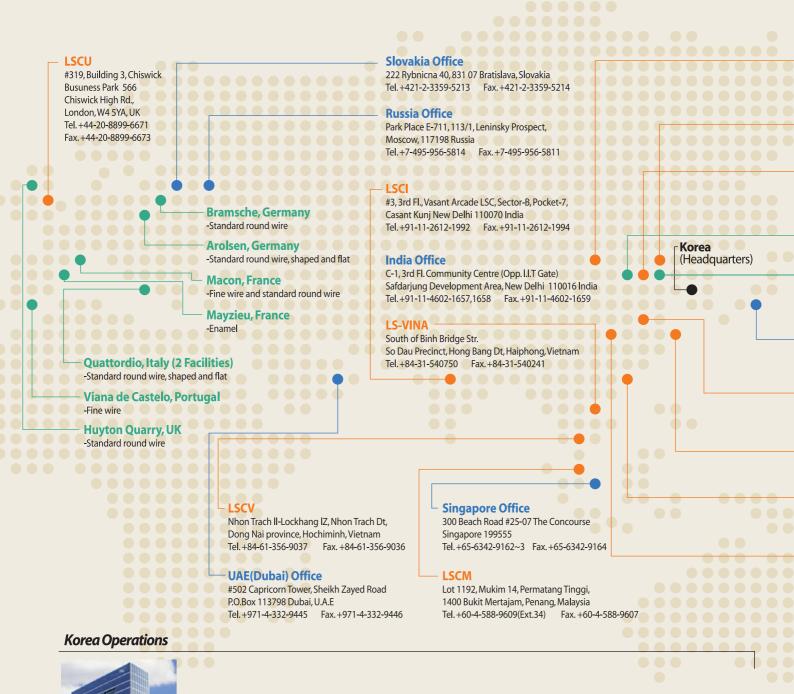








Global Network





HeadquartersLSTower 1026-6 Hogye-dong Dongan-gu, Anyang, Gyeonggi-do

Dongan-gu, Anyang, Gyeonggi-c 431-830 Korea Tel. +82-2-2189-9114



Anyang Plant

555 Hogye-dong, Dongan-gu Anyang, Gyeonggi-do 431-830 Korea Tel. +82-31-428-4114



Gumi Plant

190 Gongdan-dong, Gumi Gyeongsangbuk-do 730-708 Korea Tel. +82-54-469-7114



Indong Plant

643 Jinpyeong-dong, Gumi Gyeongsangbuk-do 730-735 Korea Tel. +82-54-469-7050



R&D Center

555 Hogye-dong, Dongan-gu Anyang, Gyeonggi-do 431-830 Korea Tel. +82-31-450-8114

LSIC (Beijing Office)

#02 B-17th Fl. Global Trade Center, 36 Beisanhuan-Dong Rd. Dongcheng Dt., Beijing, China Tel. +86-10-5825-6011 Fax. +86-10-5825-6015

LSCT

East of Jing-jin, Express, Yixingbu Entrance, Beichen, Tianjin, China Tel. +86-22-2699-7618 Fax. +86-22-2699-7617

LSIC (Shenyang Office)

Room B, 15th Fl. XinGangAo Building, 51 Beizhan Rd. Shenhe Dt. Shenyang 110013 China Tel. +86-24-2256-6541 Fax. +86-24-2256-6539

Tianjin, China

-Flat and shaped products

Suzhou, China

-Standard round wire

Japan Office

E 16th Fl. Akasaka Twin Tower 17-22, 2-Chome Akasaka, Minato-ku, Japan Tel.+81-3-3582-9129 Fax.+81-3-3582-7363

LSCW

LS Industrial Park, Xin Mei Rd, National High-tech Industrial Development Zone. Wuxi, Jiangsu Province, 214028 China Tel. +86-510-8534-5943 Fax. +86-510-8534-5341

LSIC (China Head Office)

12th Fl. Huamin Empire Plaza, 726 West Yan'an Rd, Shanghai 200050, China Tel. +86-21-5237-3399 Fax. +86-21-5237-8996

LSIC (Shenzhen Office)

#611-612,6013 Shennan Rd. Futian Dt. Shenzhen, China Fax. +86-755-8275-0545

Tel. +86-755-8275-0470 LSIC (Chendu Office)

#2606, 26th Fl. CCB Sichuan Building, 88 Ti Du Street, Chengdu 610017 China Tel. +86-28-8676-7951 Fax. +86-28-8676-7953

Columbia City, Indiana USA

-Copper rod production

Franklin, Indiana USA (Femcoe JV)

-Standard round wire

Kendallville, Indiana USA

-Fine wire

Willowbrook, Illinois USA

-Fabricated insulation

Fort Wayne, Indiana USA

-Standard round wire, flat wire, enamel

Torreon, Mexico

-Standard round wire

Brownwood, Texas USA

-OSP, Fiber

Hoisington, Kansas USA

-Premise, OSP

Franklin, Tennessee USA

-Standard round wire (Cu and Al)

Atlanta, Georgia

(Headquarters)

Tarboro, North Carolina USA

-OSP

LSCA

920 Sylvan Avenue, Englewood Cliffs, NJ 07632, USA Tel.+1-201-816-2253 Fax.+1-201-816-2984

Clifton Park, New York USA

-Fabricated insulation

Simcoe, Canada

-Round, flat and shaped wire

● Subsidiaries ● Branches ● Superior Essex



Aluminium Team

Head Office 14F, LS Tower, 1026-6, Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-080, Korea

Tel. +82-2-2189-9114 Fax. +82-2-2189-9379

Factory 643 Jinpyeong-dong, Gumi-si, Gyeongsangbuk-do, 730-735, Korea

Tel. +82-54-469-7814 Fax. +82-54-469-7707