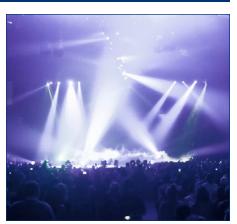


Single Pole Cam-Type Connectors

15, 16 & 18 Series: For applications up to 400A, 600V AC/DC

rhino-hide®









rhino-hide single Pole Cam-Type Connectors



Overview







Rhino-Hide Single Pole Cam-Type Connectors from Leviton supply temporary electrical power distribution for multiple indoor and outdoor applications.

Features and Benefits

- Plugs are available in set screw or crimp tube termination, taper nose and ball nose configurations
- Intermateable and compatible with competitive cam-type products — can be retrofitted to existing locations and power distribution systems
- Shatter and crack proof high durometer thermoplastic vulcanizate (TPV) or neoprene rubber
- Color-coded insulating sleeves provide fast and easy phase identification
- Self compensating for wear slit in male contact provides spring action for longer usage
- Quick connect/disconnect
- High conductivity positive, vibration-proof connection provided by cam design
- Wide range of applications usable with a wide range of cable and amperage ratings
- Meets NEC requirements and is UL Listed and CSA Certified; NEMA 3R-Rated for use in outside locations

Experience the Difference

Rhino-Hide Single Pole Cam-Type Connectors are designed for easy assembly and disassembly without special tools. A thermoplastic screw is used to tightly secure the contact inside the insulating sleeve, making assembly, disassembly and field repairs effortless. The plugs use plastic locking and reinforcement rings molded into insulating sleeves and receptacles ensuring the integrity of the connection. Under severe stress and load conditions, these rings will not melt, break or crack.



UL/CSA 1691 Compliant

rhino-hide® Single Pole Cam-Type Connectors



Common Applications

- Sports, Entertainment and Movie Industry
- Theme Parks and Carnival Equipment
- Concert Venues and Convention Centers
- Motor and Generator Splices
- Mining Operations

- Welding and Construction Sites
- Commercial and Navy Shipbuilding/Repair
- Petrochemical and Manufacturing Plant Turnarounds
- Numerous Other Temporary Power Applications



Ordering Information

15 Series: Single Set Screw or Crimp Tube Termination

NEMA 3R Rated for Indoor/Outdoor Use

The 15 Series Taper Nose mini-cam plugs, receptacles and connectors are tough and reliable. Primary applications include carnivals and theme parks, as well as other entertainment applications.











15D21-UG

15R21-UR

15S31-UR

15R22-UH 15D22-UY

CAM-TYPE PLUGS

Single Set Scr	ew Termination ® ®
Male Plug	Female Plug
15D21-U*	15D22-U*
15D21-UC	15D22-UC
Crimp Tube	Termination ® ®
Male Plug	Female Plug
15D23-U*	15D24-U*
15D23-UC	15D24-UC
	Male Plug 15D21-U* 15D21-UC Crimp Tube Male Plug 15D23-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

REPLACEMENT SLEEVES

Male Plug	Female Plug
15SDM-1U*	15SDF-1U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE PANEL MOUNT RECEPTACLES

0.11.61. #0.#0	.5" Threaded	Stud Term. ® 🚱	.75" Threaded	Stud Term. 🕪 🚱	Enclosure
Cable Size: #8 - #2 Max Ampacity: 150A	Male Plug	Female Plug	Male Plug	Female Plug	Male/Female
Max Ampacity. 130A	15R21-U*	15R22-U*	15R21-1U*	15R22-1U*	15S31-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

Note: Some items may require extended lead times; always consult with your local sales representative for current availability.



rhino-hide® Single Pole Cam-Type Connectors

16 Series: Single or Double Set Screw or Crimp Tube Termination NEMA 3R Rated for Outdoor Use

The 16 Series Taper Nose products are the connectors of choice for power distribution for construction sites, mining operations, concerts, sound stages, movie-making, television production, sporting events and conventions.









1GD21-UR

16D29-UG

16D24-UE

16D33-U0

CAM-TYPE PILIGS

Double Set Screw Termination 🕲 🚳				
Male	e Plug	Female Plug		
16D	44-U*	16D-	45-U*	
	Crimp Tube Te	rmination ® ®		
Male	e Plug	Fema	e Plug	
16D	25-U*	16D	34-U*	
Single Set Scr Male Plug	ew Termination Female Plug	Double Set Screw Male Plug	r Termination ® ® Female Plug	
16D21-U*	16D29-U*	16D22-U*	16D31-U*	
_	_	16D22-UC	16D31-UC	
Crimp Tube Termination ® 🚱				
Male Plug		Female Plug		
16D26-U*		16D35-U*		
Single Set Scr Male Plug	rew Termination Female Plug	Double Set Screw Male Plug	Termination ® ® Female Plug	
16D23-U*	16D32-U*	16D24-U*	16D33-U*	
_	_	16D24-UC	16D33-UC	
Crimp Tube Termination ® ®				
Male	e Plug	Female Plug		
16D	28-U*	16D	37-U*	
	Male Male Single Set Scr Male Plug 16D21-U* — Male 16D Single Set Scr Male Plug 16D23-U* — Male Male Plug Male	Male Plug 16D44-U* Crimp Tube Te Male Plug 16D25-U* Single Set Screw Termination Male Plug 16D21-U* 16D29-U* — Crimp Tube Te Male Plug 16D26-U* Single Set Screw Termination Male Plug 16D26-U* Single Set Screw Termination Male Plug 16D23-U* — — — — — — — — — — — — —	Male Plug Femal 16D44-U* 16D4 Crimp Tube Termination ® ® Male Plug Femal 16D25-U* 16D3 Single Set Screw Termination Double Set Screw Male Plug Female Plug Male Plug 16D21-U* 16D29-U* 16D22-U* — — 16D22-UC Crimp Tube Termination ® ® Male Plug Female Plug Male Plug 16D23-U* 16D24-U* 16D24-U* — — 16D24-UC Crimp Tube Termination ® ® Male Plug Female	

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

REPLACEMENT SLEEVES (TPV)

For Plugs	1/0 to 4/0	For Plugs #2 - 2/0	
Male Plug	Female Plug	Male Plug	Female Plug
16SDM-1U*	16SDF-1U*	16SDM-2U*	16SDF-2U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

Note: Some items may require extended lead times; always consult with your local sales representative for current availability.



Ordering Information

16 Series: Single or Double Set Screw or Crimp Tube Termination **NEMA 3R Rated for Outdoor Use**











16A33-U*

16R21-UR

16R24-UW

16S28-UB

CAM-TYPE PANEL MOUNT RECEPTACLE

0.11.0' 1/0.4/0		Doub	le Set Screw	Terminatio	n ® ©	
Cable Size: 1/0 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90°		Male, 45°		Female, 45°
	16R21-U*	16R22	?-U*	16	SR27-U*	16R28-U*
0.11.01.00.470		.75"L T	hreaded Stud	** Termina	tion ® ®	
Cable Size: #2 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90° w/microv		wsitch	Male, 45°	Female, 45°
Max Ampacity. 400A	16R23-U*	16R24-U*	16RSW-U* 16R29-U*		16R29-U*	16R30-U*
	1.125"L Threaded Stud** Termination ® ®					
Cable Size: #2 - 4/0	Male, 90°	Female, 90°		o. Self-Clinching N		g Nut
Max Ampacity: 400A	Male, 90			М	ale, 90°	Female, 90°
	16R23-1U* 16R24-1U*		16	R25-1U*	16R26-1U*	
0-bl- 6 #0 4/0	Half Round w/Tapped Hole ® ®					
Cable Size: #2 - 4/0		Male, 90°		Female, 90°		0°
Max Ampacity: 400A		16R19-U*		16R20-U*		

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

TERMINAL CONNECTORS

0.11.61. #0.470		Bus Bar Mount 🕸 🚱	
Cable Size: #2 - 4/0	Male Angle	Female Angle	Offset
Max Ampacity: 400A	16M21-2U*	16F21-U*	16F22-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

COVERS

Enclosure	Caps		
Male/Female	Male	Female	
16S31-U*	16P21-U*	16P22-U*	

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE ADAPTERS

Max Ampacity: 400A	Paralleling Tee ® ® F-M-M	Tapping Tee ® ® F-F-M	3-Fer ® ® M-F-F-F	Reverse 3-Fer ® F-M-M-M
' 1	16A21-U*	16A22-U*	16A23-U*	16A26-U*
May Ampositus 400A	Double Male ® ®		Double Female ® ®	
Max Ampacity: 400A	16A25-U*		16A24-U*	
Replace * with the following: W	(White), E (Black), H (Brown), R (F	Red), B (Blue), O (Orange), G (Gree	n), Y (Yellow).	
Assembled Adapters Cable Size: 4/0	Paralleling Tee ® ®- F-M-M	Tapping Tee ® ® F-M-F	3-Fer ® ® M-F-F-F	Reverse 3-Fer ® F-M-M-M
Max Ampacity: 400A	16A31-U*	16A32-U*	16A33-U*	16A36-U*

Replace * with the following: W (White), E (Black), R (Red), B (Blue), G (Green).

Note: Some items may require extended lead times; always consult with your local sales representative for current availability.

^{*}Threaded stud termination type receptacles are available with custom stud lengths, from .75"L to 3.00"L.

Please contact your local sales representative for ordering information and availability.



rhino-hide® single Pole Cam-Type Connectors

18 Series: Single or Double Set Screw Termination

NEMA 3R Rated for Outdoor Use







18F21-UW





18D21-UG

18R21-UB

18R24-UG

COVERS

18D26-UG

The 18 Series Ball Nose plugs, receptacles and connectors are used by the broadcast industry in Canada, as well as the welding industry in the United States.

CAM-TYPE PLUGS

Cable Size: #2 - 2/0	Single Set Screw Termination ® ®		Double Set Screw Termination 🕪 🚳	
	Male Plug	Female Plug	Male Plug	Female Plug
Max Ampacity: 300A	18D21-U*	18D29-U*	18D22-U*	18D31-U*
0.11.6'. 0/0.4/0	Single Set Screw	/ Termination ® ®	Double Set Screw	v Termination ® ®
Cable Size: 2/0 - 4/0	Male Plug	Female Plug	Male Plug	Female Plug
Max Ampacity: 400A	18D23-U*	18D32-U*	18D24-U*	18D33-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE PANEL MOUNT RECEPTACLES

0-bl- 6 #0 4/0	.75"L Threaded	Stud** Termination ® ®
Cable Size: #2 - 4/0 Max Ampacity: 400A	Male, 90°	Female, 90°
Max Allipacity. 400A	18R21-U*	18R22-U*
Cable Size: 1/0 - 4/0	Double Set Se	crew Termination ® ®
Max Ampacity: 400A	Male, 90°	Female, 90°
Max Ampacity. 400A	18R23-U*	18R24-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

FEMALE TERMINAL CONNECTORS

Cable Size: #2 - 4/0 Max Ampacity: 400A	Bus Bar Mount ® 🚱		Caps	
	Angle	Offset	Male	Female
	18F21-U*	18F22-U*	18P21-U*	18P22-U*

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

CAM-TYPE ADAPTERS

Max Ampacity: 400A	Paralleling Tee ® ® F-M-M	Tapping Tee ® & F-F-M		3-Fer ® ® M-F-F-F
	18A21-UW	18A22-UW		18A23-UW
May Ampaity 400A	Double Male 🖫 🚳		Double Female (1) 🚳	
Max Ampacity: 400A	18A25-UW		18A24-UW	

Replace * with the following: W (White), E (Black), H (Brown), R (Red), B (Blue), O (Orange), G (Green), Y (Yellow).

Note: Some items may require extended lead times; always consult with your local sales representative for current availability.

^{**}Threaded stud termination type receptacles are available with custom stud lengths, from .75"L to 3.00"L.

Please contact your local sales representative for ordering information and availability.

rhino-hide® single Pole Cam-Type Connectors



Accessories









15 SERIES DEVICES

"Com-A-Long"Assembly Tools	15CLM-U for Female Plug	15CLF-U for Male Plug
Lubricating Spray (16 Fl. oz. can)	C0001	
Copper Shims (Sold 10 per package)	A0006	
Strain Relief Wire (Sold 10 per package)	A0007	
Set Screws (Sold 10 per package)	A0001	
Plastic Screws (Sold 10 per package)	A0011	

16 AND 18 SERIES DEVICES

"Com-A-Long"Assembly Tools	16CLM-U for Female Plug	16CLF-U for Male Plug
Lubricating Spray (16 Fl. oz. can)	C000	1
Copper Shims (Sold 10 per package)	A0004	
Strain Relief Wire (Sold 10 per package)	A0003	
Set Screws (Sold 10 per package)	A0002	
Plastic Screws (Sold 10 per package)	A001	0







Specifications

Material Specifications		
Insulator:	TPV	
Contact:	Solid Brass	
Strain Relief:	Copper Wire	
Assembly Screw:	Thermoplastic	

Standards and Certifications		
NEMA: 3R		
UL:	1691	
CSA:	C22.2 No. 1691-12	

Ampacity Table		
Cable Size	Ampacity	
#8	80	
#6	105	
#4	140	
#2	190	
#1	220	
1/0	260	
2/0	300	
3/0	350	
4/0	405	

Excerpted from NEC Article 400, Table 400.5(A)(2), 90° column

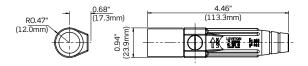


rhino-hide® Single Pole Cam-Type Connectors

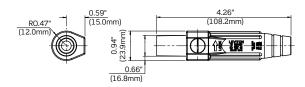
Dimensional Diagrams

15 Series Devices

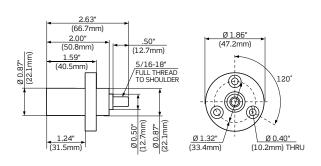
Male Plug



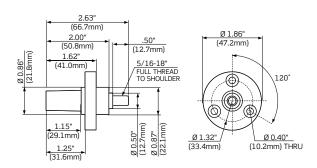
Female Plug



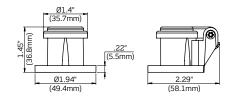
Male Panel Receptacle



Female Panel Receptacle



NEMA 3R Enclosure for Male and Female Panel Receptacles

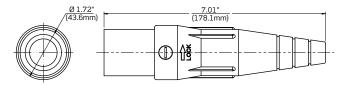




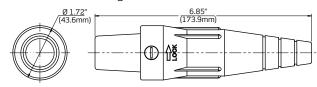
Dimensional Diagrams

16 Series Devices

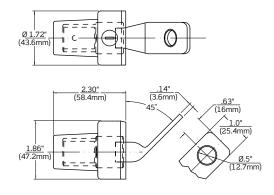
Male Detachable Plug



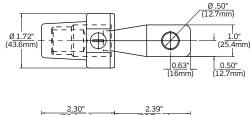
Female Detachable Plug

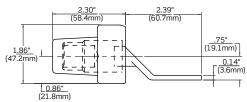


16F21 Female Terminal Connector

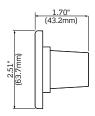


16F22 Female Terminal Connector

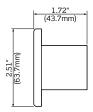




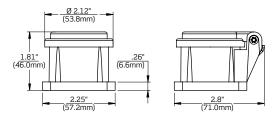
Male Protective Cap



Female Protective Cap

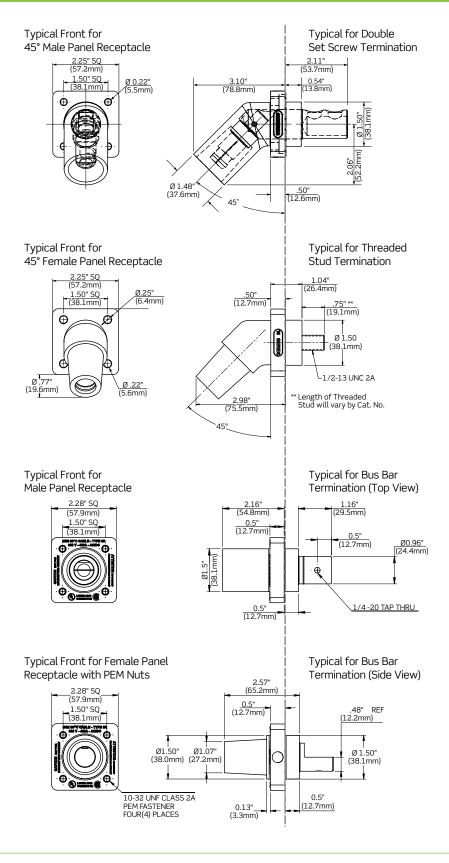


NEMA 3R Enclosure for Male and Female Panel Receptacles





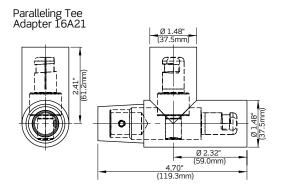
16 Series Devices



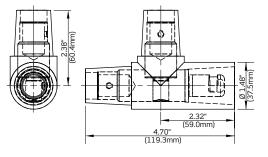


Dimensional Diagrams

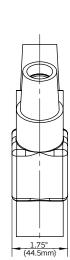
16 Series Devices

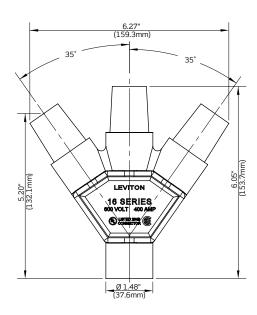


Tapping Tee Adapter 16A22



3-Fer Adapter 16A23

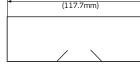




Double Male Adapter 16A24

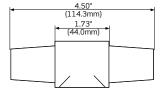




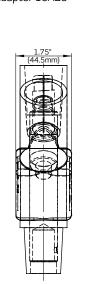


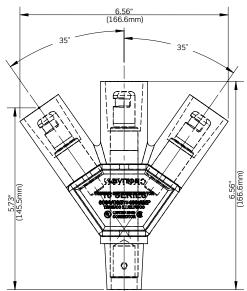
Double Female Adapter 16A25





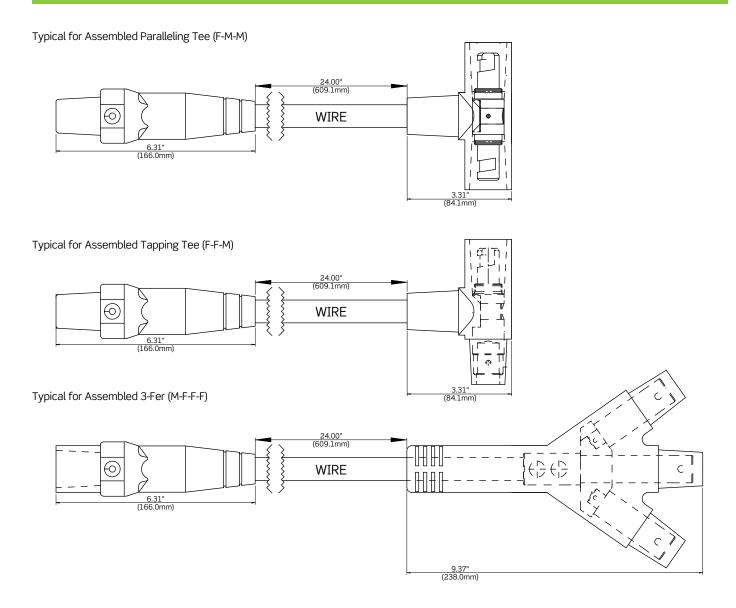
Reverse 3-Fer Adapter 16A26







16 Series Devices

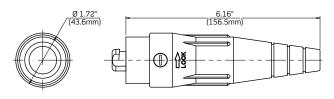




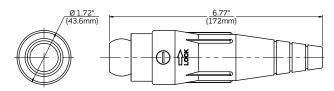
Dimensional Diagrams

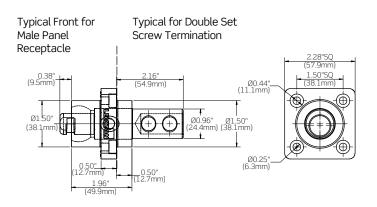
18 Series Devices

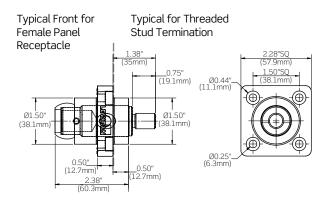
Male Detachable Plug



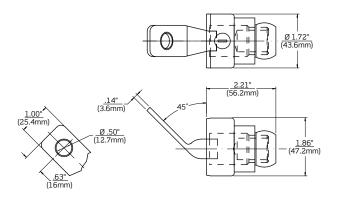
Female Detachable Plug



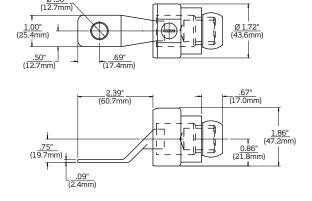




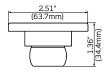
18F21 Female Terminal Connector - Bus Bar Mount, Angled



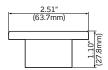
18F22 Female Terminal Connector - Bus Bar Mount, Offset



18P21 Male Protective Cap



18P22 Female Protective Cap

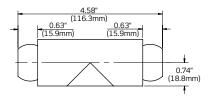




18 Series Devices

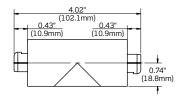
18A25 Double Male Adapter



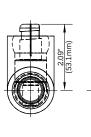


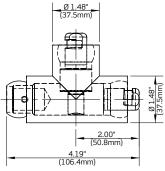
18A24 Double Female Adapter



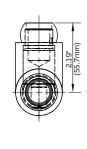


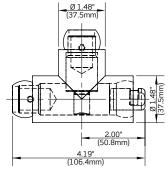
Paralleling Tee Adapter



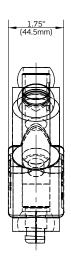


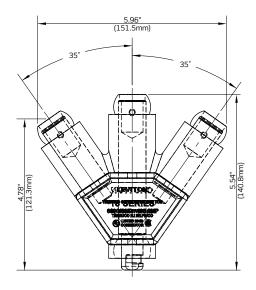
Tapping Tee Adapter





3-Fer Adapter





More Power Solutions for Rough Service Environments

The rhino-hide family of products



Rhino-Hide® NEMA Wiring Devices

These devices are watertight, submersible, corrosion resistant and have threaded fittings to provide positive locking connections in physically demanding environments that suffer from exposure to weather, chemicals, vibration, and physical strain, including:

- Oil Drilling Rigs
- Mining Operations
- Shore Power
- **Wind Power Turbines**
- **Construction Sites**

Rhino-Hide® Multi-Pin Connectors

The Rhino-Hide LZ Series connectors are heavy duty, environmentally sealed plugs and receptacles used for power, control and instrumentation applications in the harshest environments. These devices meet or exceed the requirements specified in the stringent Military Specification MIL-5015, making them suitable for a variety of industrial environments. Typical applications include:

- Onshore and Offshore Drilling Operations
- Aerospace and Marine Environments
- Land Transportation
- Factories, Refineries and More



Visit our Website at: www.leviton.com/rhinohide email: industrial@leviton.com

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Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005



