





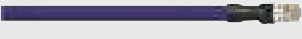

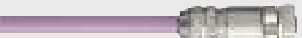



Network

Network-/Ethernet-/FOC-cable/Fieldbus



Network Cable Selection

Chainflex® cable		Jacket	Cable type	Approvals and standards
Video-, vision engineering/bus technology (with camera reference list)				
	CFLG-6G	TPE	Gradient glass fiber cable	CE
	CFLG-12G	TPE	Gradient glass fiber cable	CE
	CAT5	TPE	Ethernet cable	CE 
	CAT5	PUR	Ethernet cable, L-/T-angle	CE 
	CAT	TPE	Ethernet cable	CE 
	Profibus	PVC/PUR/TPE	Fieldbus cable	CE 

TPE Fiber Optic Cable

Chainflex® CFLG-6G

TPE Energy Chain® gradient glass fiber optic cable, halogen-free, oil-resistant, low temperature -40°F (-40°C)

Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- External jacket on the basis of TPE
- Fiber optic cables: diameter of fibers 62.5/125 µm and 50/125 µm
- Minimum bending radius for use in Energy Chains®: 15 x cable diameter
- Temperature range (moving): -40°F to +140°F (-40°C to +60°C)
- Color: black



- FOC**
Gradient fibers
- Fiber coating**
Gel-filled fiber sheath
- Strain relief**
Stranded GRP rods
- Outer jacket**
Highly abrasion resistant TPE blend with integrated torsion protection braid



Chainflex® TPE gradient glass-fiber cable 50/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter in. (mm)	Bending Radius
ST connectors on both ends	LWL9040030	6 x 50/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040031	6 x 50/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040032	6 x 50/125	.45 (11.5)	15 x d

Chainflex® TPE gradient glass-fiber cable 62.5/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter in. (mm)	Bending Radius
ST connectors on both ends	LWL9040045	6 x 62.5/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040046	6 x 62.5/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040047	6 x 62.5/125	.45 (11.5)	15 x d

LWL90428936



Closed corrugated tube to feed in fiber optic cables (image shown cut open)



TPE Fiber Optic Cable

Chainflex® CFLG-12G

TPE Energy Chain® gradient glass fiber optic cable, halogen-free, oil-resistant, low temperature (-40°C)



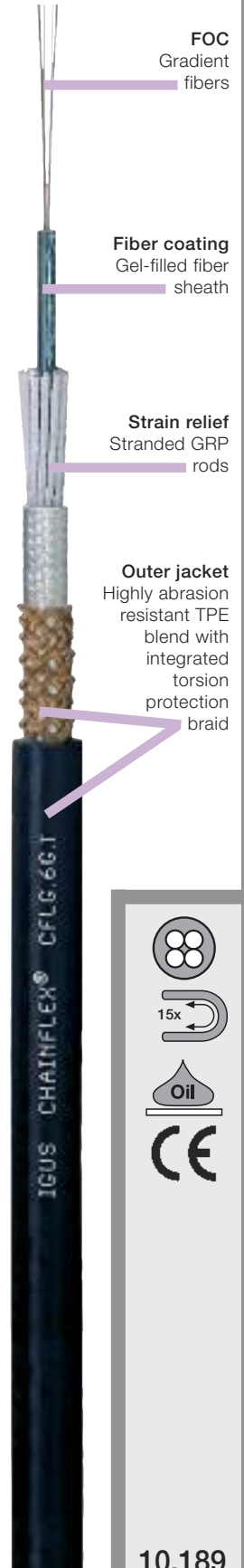
CFLG-12G

Price Index



Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- External jacket on the basis of TPE
- Fiber optic cables: diameter of fibers 62.5/125 µm and 50/125 µm
- Minimum bending radius for use in Energy Chains®: 15 x cable diameter
- Temperature range (moving): -4°F to +194°F (-20°C to +90°C)
- Color: black



Chainflex® TPE gradient glass-fiber cable 50/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter		Bending Radius
			in.	(mm)	
ST connectors					
on both ends	LWL9040060	12 x 50/125	.45	(11.5)	15 x d
ST connectors					
on both ends incl.					
conversion to SC	LWL9040061	12 x 50/125	.45	(11.5)	15 x d
ST connectors					
on both ends incl.					
conversion to LC	LWL9040062	12 x 50/125	.45	(11.5)	15 x d

Chainflex® TPE gradient glass-fiber cable 62.5/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter		Bending Radius
			in.	(mm)	
ST connectors					
on both ends	LWL9040075	12 x 62.5/125	.45	(11.5)	15 x d
ST connectors					
on both ends incl.					
conversion to SC	LWL9040076	12 x 62.5/125	.45	(11.5)	15 x d
ST connectors					
on both ends incl.					
conversion to LC	LWL9040077	12 x 62.5/125	.45	(11.5)	15 x d

LWL90428936



Closed corrugated tube to feed in fiber optic cables (image shown cut open)



Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- Shielded
- External jacket TPE
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter
- Temperature range (moving): -31°F to +158°F (-35°C to +70°C)
- Color: violet

Straight



Cable Type	igus® Part No.	# of Pairs x AWG	Bending Radius	Diameter	
				in.	(mm)
CAT5 - 4 Pole	CAT9040001	2 x 24	12.5 x d	.28	(7.0)



CAT5 - 8 Pole	CAT9040020	4 x 26	12.5 x d	.31	(8.0)
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CAT5 - 8 Pole	CAT9040060	4 x 26	12.5 x d	.31	(8.0)
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CAT5 - 8 Pole	CAT9040140	4 x 26	12.5 x d	.31	(8.0)
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CAT5 - 8 Pole	CAT9040180	4 x 26	12.5 x d	.31	(8.0)
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Cross-Over



Cable Type	igus® Part No.	# of Pairs x AWG	Bending Radius	Diameter	
				in.	(mm)
CAT5 - 8 Pole	CAT9040040	4 x 26	12.5 x d	.31	(8.0)



CAT5 - 8 Pole	CAT9040080	4 x 26	12.5 x d	.31	(8.0)
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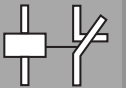


CAT5 - 8 Pole	CAT9040160	4 x 26	12.5 x d	.31	(8.0)
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CAT5 - 8 Pole	CAT9040200	4 x 26	12.5 x d	.31	(8.0)
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Internet: <http://www.igus.com>
 email: sales@igus.com
 QuickSpec/RFQ: <http://www.igus.com/quickspec>



No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- Shielded
- External jacket TPE
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter
- Temperature range (moving): -31°F to +158°F (-35°C to +70°C)
- Color: violet

Chainflex®-TPE Energy Chains® Ethernet special cable



Connector 01 L-angle curve lower



Connector 02 L-angle curve above



Connector 03 T-angle curve outer



Connector 04 T-angle curve inward



Connector 05 straight



Straight - 4 Pole

Part No.	Preassembled with connector combination		# of Pairs x AWG	Diameter		Bending Radius
				in.	(mm)	
CAT9040380	1	2	4 x 26	.31	(8.0)	12.5
CAT9040540	1	3	4 x 26	.31	(8.0)	12.5
CAT9040560	1	4	4 x 26	.31	(8.0)	12.5
CAT9040320	1	5	4 x 26	.31	(8.0)	12.5
CAT9040360	2	1	4 x 26	.31	(8.0)	12.5
CAT9040340	2	2	4 x 26	.31	(8.0)	12.5
CAT9040500	2	3	4 x 26	.31	(8.0)	12.5
CAT9040520	2	4	4 x 26	.31	(8.0)	12.5
CAT9040300	2	5	4 x 26	.31	(8.0)	12.5
CAT9040440	3	3	4 x 26	.31	(8.0)	12.5
CAT9040480	3	4	4 x 26	.31	(8.0)	12.5
CAT9040400	3	5	4 x 26	.31	(8.0)	12.5
CAT9040460	4	4	4 x 26	.31	(8.0)	12.5
CAT9040420	4	5	4 x 26	.31	(8.0)	12.5

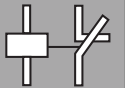
Note: The mentioned external diameters are maximum values

Cross-Over - 8 Pole

Part No.	Preassembled with connector combination		# of Pairs x AWG	Diameter		Bending Radius
				in.	(mm)	
CAT9040380	1	2	4 x 26	.31	(8.0)	12.5
CAT9040390	1	2	4 x 26	.31	(8.0)	12.5
CAT9040550	1	3	4 x 26	.31	(8.0)	12.5
CAT9040570	1	4	4 x 26	.31	(8.0)	12.5
CAT9040330	1	5	4 x 26	.31	(8.0)	12.5
CAT9040370	2	1	4 x 26	.31	(8.0)	12.5
CAT9040350	2	2	4 x 26	.31	(8.0)	12.5
CAT9040510	2	3	4 x 26	.31	(8.0)	12.5
CAT9040530	2	4	4 x 26	.31	(8.0)	12.5
CAT9040310	2	5	4 x 26	.31	(8.0)	12.5
CAT9040450	3	3	4 x 26	.31	(8.0)	12.5
CAT9040490	3	4	4 x 26	.31	(8.0)	12.5
CAT9040410	3	5	4 x 26	.31	(8.0)	12.5
CAT9040470	4	4	4 x 26	.31	(8.0)	12.5
CAT9040430	4	5	4 x 26	.31	(8.0)	12.5

Note: The mentioned external diameters are maximum values

Internet: <http://www.igus.com>
 email: sales@igus.com
 QuickSpec/RFQ: <http://www.igus.com/quickspec>



No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

Technical Information

- Oil-resistant
- UV-resistant
- Flame-retardant
- Shielded
- Abrasion and tear-resistant
- External jacket on the basis of TPE
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter
- Temperature range (moving): -22°F to +176°F (-30°C to +80°C)
- Color: violet

Straight



Cable Type	igus® Part No.	# of Pairs x AWG	Bending Radius	Diameter	
				in.	(mm)
CAT5 - 8 Pole	RI9296-2M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-10M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-15M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-25M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-30M	4 x 26	12.5 x d	.30	(7.6)

Cross-Over



Cable Type	igus® Part No.	# of Pairs x AWG	Bending Radius	Diameter	
				in.	(mm)
CAT5 - 8 Pole	RI9296-N2M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-N10M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-N15M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-N25M	4 x 26	12.5 x d	.30	(7.6)
CAT5 - 8 Pole	RI9296-N30M	4 x 26	12.5 x d	.30	(7.6)

Note: The mentioned external diameters are maximum values
Custom lengths available upon request (maximum 50 meters)



TPE Ethernet Special Cable

Chainflex® harnessed CAT6 cables



CAT6

Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- Shielded
- External jacket TPE
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter
- Temperature range (moving): -31°F to +158°F (-35°C to +70°C)
- Color: violet

Straight



Cable Type	igus® Part No.	# of Pairs x AWG	Bending Radius	Diameter	
				in.	(mm)
CAT6 - 8 Pole	CAT9040600	4 x 26	12.5 x d	.39	(10.0)



CAT6 - 8 Pole	CAT9040640	4 x 26	12.5 x d	.39	(10.0)
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CAT6 - 8 Pole	CAT9040680	4 x 26	12.5 x d	.39	(10.0)
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Cross-Over



CAT6 - 8 Pole	CAT9040620	4 x 26	12.5 x d	.39	(10.0)
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CAT6 - 8 Pole	CAT9040660	4 x 26	12.5 x d	.39	(10.0)
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CAT6 - 8 Pole	CAT9040700	4 x 26	12.5 x d	.39	(10.0)
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No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

Technical Information

- Oil-resistant
- UV-resistant
- Flame-retardant
- Shielded
- External jacket on the basis of PVC
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter

Chainflex®-PVC Profibus special cable

	Connector 01	M12, 5-pole socket, straight
	Connector 02	M12, 5-pole pin, straight
	Connector 03	M12, 5-pole pin, angled
	Connector 04	M12, 5-pole socket, angled
	Connector 05	M12, 5-pole socket, angled
	Connector 06	M12, 5-pole pin, angled
	Connector 07*	D-SUB, 9-pole pin, straight
	Connector 08*	SUB-D, 9-pole pin, 90°, End plug
	Connector 09*	SUB-D, 9-pole pin, 45°, IP67
	Connector 10*	SUB-D, 9-pole pin, End plug, 45°
	Connector 11*	SUB-D, 9-pole socket/pin, pass, angled 45°
	Connector 12*	SUB-D, 9-pole socket/pin, pass, angled 90°
	Connector 13	open end of cable

* Plugs with IN and OUT connection always will be connected on the IN side if the cable is assembled.
More combinations on request.

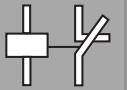


- Total Shield: bend resistant tinned braided copper shield
Coverage approx. 80% optical
- Color: violet
- Temperature range (moving):
-31°F to +158°F (-35°C to +70°C)

Chainflex®-PVC Profibus special cable

Part No.	Preassembled with connector combination		# of Pairs x AWG	Diameter		Bending Radius
				in.	(mm)	
BUS9041004	1	1	1 x 24	.31	(8.0)	12.5
BUS9041001	1	2	1 x 24	.31	(8.0)	12.5
BUS9041011	1	5	1 x 24	.31	(8.0)	12.5
BUS9041006	1	6	1 x 24	.31	(8.0)	12.5
BUS9041005	1	13	1 x 24	.31	(8.0)	12.5
BUS9041002	2	2	1 x 24	.31	(8.0)	12.5
BUS9041013	2	5	1 x 24	.31	(8.0)	12.5
BUS9041007	2	6	1 x 24	.31	(8.0)	12.5
BUS9041054	2	7	1 x 24	.31	(8.0)	12.5
BUS9041059	2	8	1 x 24	.31	(8.0)	12.5
BUS9041062	2	9	1 x 24	.31	(8.0)	12.5
BUS9041055	2	10	1 x 24	.31	(8.0)	12.5
BUS9041003	2	13	1 x 24	.31	(8.0)	12.5
BUS9041066	3	4	1 x 24	.31	(8.0)	12.5
BUS9041064	3	13	1 x 24	.31	(8.0)	12.5
BUS9041065	4	13	1 x 24	.31	(8.0)	12.5
BUS9041014	5	5	1 x 24	.31	(8.0)	12.5
BUS9041010	5	6	1 x 24	.31	(8.0)	12.5
BUS9041012	5	13	1 x 24	.31	(8.0)	12.5
BUS9041009	6	6	1 x 24	.31	(8.0)	12.5
BUS9041008	6	13	1 x 24	.31	(8.0)	12.5
BUS9041053	7	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041056	7	13	1 x 24	.31	(8.0)	12.5
BUS9041061	8	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041060	9	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041063	9	13	1 x 24	.31	(8.0)	12.5
BUS9041052	10	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041057	10	13	1 x 24	.31	(8.0)	12.5
BUS9041058	11	IN 13/OUT 13	1 x 24	.31	(8.0)	12.5
BUS9041051	12	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5

Internet: <http://www.igus.com>
 email: sales@igus.com
 QuickSpec/RFQ: <http://www.igus.com/quickspec>



No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

Technical Information

- Oil-resistant
- UV-resistant
- Flame-retardant
- Shielded
- External jacket PVC
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter

Chainflex®-PUR Profibus special cable

	Connector 01	M12, 5-pole socket, straight
	Connector 02	M12, 5-pole pin, straight
	Connector 03	M12, 5-pole pin, angled
	Connector 04	M12, 5-pole socket, angled
	Connector 05	M12, 5-pole socket, angled
	Connector 06	M12, 5-pole pin, angled
	Connector 07*	D-SUB, 9-pole pin, straight
	Connector 08*	SUB-D, 9-pole pin, 90°, End plug
	Connector 09*	SUB-D, 9-pole pin, 45°, IP67
	Connector 10*	SUB-D, 9-pole pin, End plug, 45°
	Connector 11*	SUB-D, 9-pole socket/pin, pass, angled 45°
	Connector 12*	SUB-D, 9-pole socket/pin, pass, angled 90°
	Connector 13	open end of cable

* Plugs with IN and OUT connection always will be connected on the IN side if the cable is assembled.
More combinations on request.

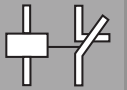


- Total Shield: bend resistant tinned braided copper shield
Coverage approx. 80% optical
- Color: violet
- Temperature range (moving):
-31°F to +158°F (-35°C to +70°C)

Chainflex®-PUR Profibus special cable

Part No.	Preassembled with connector combination		# of Pairs x AWG	Diameter		Bending Radius
				in.	(mm)	
BUS9041104	1	1	1 x 24	.31	(8.0)	12.5
BUS9041101	1	2	1 x 24	.31	(8.0)	12.5
BUS9041111	1	5	1 x 24	.31	(8.0)	12.5
BUS9041106	1	6	1 x 24	.31	(8.0)	12.5
BUS9041105	1	13	1 x 24	.31	(8.0)	12.5
BUS9041102	2	2	1 x 24	.31	(8.0)	12.5
BUS9041113	2	5	1 x 24	.31	(8.0)	12.5
BUS9041107	2	6	1 x 24	.31	(8.0)	12.5
BUS9041154	2	7	1 x 24	.31	(8.0)	12.5
BUS9041159	2	8	1 x 24	.31	(8.0)	12.5
BUS9041162	2	9	1 x 24	.31	(8.0)	12.5
BUS9041155	2	10	1 x 24	.31	(8.0)	12.5
BUS9041103	2	13	1 x 24	.31	(8.0)	12.5
BUS9041166	3	4	1 x 24	.31	(8.0)	12.5
BUS9041164	3	13	1 x 24	.31	(8.0)	12.5
BUS9041165	4	13	1 x 24	.31	(8.0)	12.5
BUS9041114	5	5	1 x 24	.31	(8.0)	12.5
BUS9041110	5	6	1 x 24	.31	(8.0)	12.5
BUS9041112	5	13	1 x 24	.31	(8.0)	12.5
BUS9041109	6	6	1 x 24	.31	(8.0)	12.5
BUS9041108	6	13	1 x 24	.31	(8.0)	12.5
BUS9041153	7	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041156	7	13	1 x 24	.31	(8.0)	12.5
BUS9041161	8	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041160	9	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041163	9	13	1 x 24	.31	(8.0)	12.5
BUS9041152	10	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041157	10	13	1 x 24	.31	(8.0)	12.5
BUS9041158	11	IN 13/OUT 13	1 x 24	.31	(8.0)	12.5
BUS9041151	12	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5

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No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

Technical Information

- Oil-resistant
- UV-resistant
- Flame-retardant
- Shielded
- External jacket on the basis of PVC
- Minimum bending radius for use in Energy Chains®: 12.5 x cable diameter

Chainflex®-TPE Profibus special cable

	Connector 01	M12, 5-pole socket, straight
	Connector 02	M12, 5-pole pin, straight
	Connector 03	M12, 5-pole pin, angled
	Connector 04	M12, 5-pole socket, angled
	Connector 05	M12, 5-pole socket, angled
	Connector 06	M12, 5-pole pin, angled
	Connector 07*	D-SUB, 9-pole pin, straight
	Connector 08*	SUB-D, 9-pole pin, 90°, End plug
	Connector 09*	SUB-D, 9-pole pin, 45°, IP67
	Connector 10*	SUB-D, 9-pole pin, End plug, 45°
	Connector 11*	SUB-D, 9-pole socket/pin, pass, angled 45°
	Connector 12*	SUB-D, 9-pole socket/pin, pass, angled 90°
	Connector 13	open end of cable

* Plugs with IN and OUT connection always will be connected on the IN side if the cable is assembled.
More combinations on request.

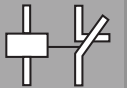


- Total Shield: bend resistant tinned braided copper shield
Coverage approx. 90% optical
- Color: violet
- Temperature range (moving):
-31°F to +158°F (-35°C to +70°C)

Chainflex®-TPE Profibus special cable

Part No.	Preassembled with connector combination		# of Pairs x AWG	Diameter		Bending Radius
				in.	(mm)	
BUS9041204	1	1	1 x 24	.31	(8.0)	12.5
BUS9041201	1	2	1 x 24	.31	(8.0)	12.5
BUS9041211	1	5	1 x 24	.31	(8.0)	12.5
BUS9041206	1	6	1 x 24	.31	(8.0)	12.5
BUS9041205	1	13	1 x 24	.31	(8.0)	12.5
BUS9041202	2	2	1 x 24	.31	(8.0)	12.5
BUS9041213	2	5	1 x 24	.31	(8.0)	12.5
BUS9041207	2	6	1 x 24	.31	(8.0)	12.5
BUS9041254	2	7	1 x 24	.31	(8.0)	12.5
BUS9041259	2	8	1 x 24	.31	(8.0)	12.5
BUS9041262	2	9	1 x 24	.31	(8.0)	12.5
BUS9041255	2	10	1 x 24	.31	(8.0)	12.5
BUS9041203	2	13	1 x 24	.31	(8.0)	12.5
BUS9041266	3	4	1 x 24	.31	(8.0)	12.5
BUS9041264	3	13	1 x 24	.31	(8.0)	12.5
BUS9041265	4	13	1 x 24	.31	(8.0)	12.5
BUS9041214	5	5	1 x 24	.31	(8.0)	12.5
BUS9041210	5	6	1 x 24	.31	(8.0)	12.5
BUS9041212	5	13	1 x 24	.31	(8.0)	12.5
BUS9041209	6	6	1 x 24	.31	(8.0)	12.5
BUS9041208	6	13	1 x 24	.31	(8.0)	12.5
BUS9041253	7	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041256	7	13	1 x 24	.31	(8.0)	12.5
BUS9041261	8	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041260	9	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041263	9	13	1 x 24	.31	(8.0)	12.5
BUS9041252	10	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5
BUS9041257	10	13	1 x 24	.31	(8.0)	12.5
BUS9041258	11	IN 13/OUT 13	1 x 24	.31	(8.0)	12.5
BUS9041251	12	IN 2/OUT 1	1 x 24	.31	(8.0)	12.5

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